

MONTHLY PROGRESS REPORT NO. 16

for the period June 1-30, 1977

to

ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

1860 Lincoln St., Suite 900 Denver, CO 80203

Contract No. 68-01-1946

Colorado C-b Tract

aeromet inc.

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by

Aeromet, Inc. P.O. Box 45447 Tulsa, OK 74145

Colorado C-b Tract



1.0 INTRODUCTION

Low level temperature and wind data were collected for June, 1977 at Casper, Wyoming; near the Colorado C-b Tract 25 miles west of Rio Blanco, Colorado; Craig, Colorado; Escalante and Hanksville Utah; Rock Springs, Wyoming; and the U-a/U-b Tract 5 miles south of Bonanza, Utah. The data collection was made using a 30 gm helium filled pilot balloon with a temperature sonde attached, a single theodolite and a TSR-2 receiver/recorder twice a day every other day. The observations were made ½ hour after sunrise and 1400L.

The pilot balloon had an ascent rate of 500 ft/min and it was tracked by a single theodolite for 12 minutes with the azimuth and elevation angles recorded every 30 seconds on a cassette tape recorder. The tape was transcribed to a pilot balloon form after the observation.

The temperature sonde operated at 403 MHz and the signal was received by a ground plane antenna at least 24 ft. AGL which was attached to the Aeromet, Inc. TSR-2 receiver/recorder. The TSR-2 receiver has a built-in Rustrak strip chart recorder and the temperature was recorded within the range from -50°C to +50°C. A baseline temperature calibration was performed with each T-Sonde by the adjustment of the recorded temperature to match the thermometer measured temperature next to the transmitting sonde. Once the calibration check was finished the balloon was released with the sonde attached and the temperature was recorded for at least 20 minutes. At the completion of each observation the data were mailed to Aeromet, Inc.

The Monthly Progress Report is divided into seven parts, one corresponding to each of the seven field sites. The collected temperature and wind data are accurate and have not been edited unless otherwise stated in the Pilot Balloon Summary Section. However, the obvious errors sometimes found in the recorded azimuth and elevation angles are corrected without mention. For example, the sequence of azimuth angles . . . 76.6, 75.3, 47.8, 73.8 . . . can be corrected without ambiguity. The more ambiguous errors are brought to the attention of the reader if editing has been performed, otherwise, the data are left as recorded and the filtering is left to the individual user. An example is the wind profile for Hanksville on 06/29/76 at 1300 MST found in the Monthly Progress Report No. 4. The azimuth angles starting 30 seconds after the launch and incremented by the same are as follows . . . 109.0, 110.0, 110.0, 281.0, 280.0, 282.0 . . . , while the corresponding elevation angles are as follows, . . . 60.0, 57.6, 58.7, 58.6, 52.7, 44.3 The wind speed and direction change dramatically over the interval as can be seen in the report since these data were not edited.



2.0 DATA SUMMARY

2.1 Colorado C-b Tract Field Summary

This month concluded the sixteen month collection of low level temperature and wind data at the Colorado C-b Tract. Arrangements were made to move the launch site back up on the C-b Tract. Pibals were released once again on 13 June, however, the site was not manned on the weekends. To maintain a good statistical base Saturday launches were done on Friday and Sunday launches were done on Monday.

Sixty-seven percent of the scheduled pibal launches were attempted resulting in 67% recovery of the temperature and wind data.

Aeromet, Inc. wishes to thank the personnel at the Tract for the use of their facilities and for conducting the pibal observations.



2.2 Mixing Layer Height

The average mixing layer height was computed for the morning and afternoon based on the morning and 1400L temperature soundings. The balloon release ½ hour after sunrise is near enough to the minimum temperature to assume the correctness of the calculated mixing layer heights. The afternoon balloon release is generally not at the time of maximum heating and the user of the mixing layer height data must be aware that minor changes in the calculated values can be expected. Without equipping the field sites with minimum/maximum thermometers the extrapolation of the afternoon data can not be justified in establishing a data base for statistical analysis. The approximation of the afternoon maximum temperature would be a "calculated guess" for there are: 1) local effects which are to be determined and would be filtered out with extrapolation, 2) mountain effects which alter the lower 1500m (e.g. downslope effects), and 3) meteorological effects which can alter the expected change in the sounding (e.g. advection, moisture, etc.).

It is felt that to better define the mixing layer height that a variety of "heat island" effects should be viewed. The rigorous method would be to define 15 "heat island" effects ranging from 0 to 14°C and let the user decide which would best serve his needs. However, for these analysis 0°, +5° and +10° "heat island" effects are calculated and listed for the morning and afternoon soundings in the table Average Mixing Layer Height.

The symbol N/D means that no mixing layer height was defined and sfc is the abbreviation for surface.

2.3 <u>Stability and Inversion Classification</u>

The temperature and wind data were edited to remove data felt to cause anomalous results in the stability and inversion classification schemes. Only the stations listed prior to the table classifying the inversions were used in the calculations.



3.1 Printed and Plotted Output

Wind speeds and directions are computed from the azimuth and elevation angles measured while tracking the balloon with the theodolite. The wind speed and direction are plotted versus height and printed out at 30 second intervals. The printed output includes the AGL and MSL height of the calculated wind value and the orthogonal components of the wind. The wind profile is also punched on computer cards at 30 second intervals.

The temperature data are processed and plotted with the temperature and the lapse rate per 300 meters versus height at 15 second intervals. Tic marks are placed on the temperature plot at significant levels. A solid line to the right side of the plot indicates the data for that layer are interpolated temperature values. The temperature data are also printed out and punched on cards. The asterisk beside a height value indicates a significant level while a "?" indicates interpolated data.

The temperature data are also processed to produce for each site a monthly summary of inversion layers and lapse rates within the inversions and from the inversion base to the surface by means of the Holzworth classification scheme for inversions (Holzworth, G.C., 1974: "Climatological Data on Atmospheric Stability in the United States" Paper presented at the American Meteorological Society Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974. Santa Barbara, California.)

The temperature and wind data are processed together to produce for each site a monthly average bivariate frequency distribution of wind direction versus wind speed represented in the 500m layer adjacent to the ground. The distribution is presented by the six Pasquill stability classes (A-F) and a summary independent of stability. If the $\Delta T/100m$ criterion is met but the wind speed criterion is not met, then the

STABILITY	ΔΤ	WIND SPEED
CLASS	(°C/100m)	
Α	<-1.9	≪ 2
В	-1.91.7	₹5
С	-1.71.5	- 6
D	-1.50.5	ALL SPEEDS
E	-0.5 - 1.5	<5
F	>1.5	₹3

wind data are checked against the criterion for the next stability class, always cascading to the D stability class. Once the wind speed criterion is met the data are classified under the new stability class even though now the lapse rate exceeds the class criterion. For example,



if the $\Delta T/100\text{m}$ value is 1.7 and the wind speed is 7 m/s, the lapse rate criterion is met for the stability class F, however the wind speed criterion is exceeded. The wind speed is greater than the 5 m/s maximum limit for class E but falls within the criterion of class D, which includes all wind speeds. As a result the observational data with a ΔT value of 1.7°C/100 m and a wind speed value of 7 m/s are classified under stability class D, not class F.

The data are also punched on computer cards in a format compatible with the STAR PROGRAM of the National Climatic Center, NOAA, U.S. Department of Commerce.



3.2 Punched Output

00-508

The punched temperature and wind data for each observation are categorized into four groups, each separated by a blank card. first group begins with a header card listing the station name (3A4), the station elevation in meters (I4), the month, date and year (I6), the observation time (I4), the time zone (A3), the balloon ascent rate in feet per minute (I3), the sampling interval in seconds (I2), the temperature error in °C (F5.1), the T-Sonde I.D. number (I5) and the surface wind speed in kts and direction (2F6.1). A surface wind speed of 180.0 KTS indicates missing surface wind data. The series of cards prior to the first blank card include on each card the elapse time in minutes (2X,F5.1), the height of the balloon in meters AGL (4X,F5.0), the height of the balloon in meters MSL(4X,F5.0), the temperature in °C (4X,F6.2), the change in temperature between standard or significant levels (2X,F6.2), the lapse rate per 300m (2X,F6.2), the difference in the lapse rate per 300m and the dry adiabatic lapse rate per 300m (2X,F6.2), the wind speed in m/s if known (4X,F5.1), and the wind direction if known (3X,F5.0). The cards following the first blank card include on each card the elapse time in minutes (2X,F5.1), the height in meters AGL (4X,F5.0), the height in meters MSL (4X,F5.0), the u-component of the wind in m/s (4X,F6.1), the V-component of the wind in m/s(6X,F6.1), the wind speed in m/s (7X,F5.1), the wind direction (6X,F5.0), the elevation angle in degrees (F5.1) and the azimuth angle in degrees (F5.1). The cards after the second blank card include a header card like before and a series of cards with four groups of the following on each card; the height in meters AGL (F6.1), the temperature in °C (F6.2), the lapse rate 'C/300m (F6.2) and a blank space (1X). The cards after the third blank card include a header card the same as described earlier, eight cards with the original digitized temperature data and a flag to indicate interpolated data (20(F3.1,I1)), five cards with the elevation angle in degrees (16F5.1), and five cards with the azimuth angle in degrees (16F5.1). The temperature data are in degrees Celsius and have 50°C added to each value. An elevation angle of 180° indicates a missing azimuth and elevation angle value.

The punched output from the bivariate frequency distribution calculations include a header card as illustrated below,

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3	3 3	3 3	3	3	3 3	3	3	3	3	3	3	3 :	3 3	3		3	3 3	3	3	3 3	3	3 :	3	3	3 3	3	3	3 3	3	3	3 3	3	3	L	3 3	3	3 3	3	3	3 :	3 3	3	3 3	3	3 3	3	3	3		3 3	3	3 3	3 3	3	3	3 3	3	3 3
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and the punched distribution data for each wind direction under each stability class in agreement with the "star" output. The stability classes are number coded as follows:

STABILITY CLASS	NUMBER CODE
A	1
В	2
C	3
D	4
E	5
F	6
Independent of Stability	7 .

The station I.D. numbers are as follows:

STATION	I.D.	NUMBER
Casper, Wyoming		1
Colorado C-b Tract		2
Craig, Colorado		3
Escalante, Utah		4
Hanksville, Utah		5
Rock Springs, Wyoming		6
Utah U-a/U-b Tract		7

The month and season number codes are as follows:

MONTH	1-12
SEASON	13 = DJF
	14 = MAM
	15 = JJA
	16 = SON
ANNUAL	17



PILOT BALLOON SUMMARY Colorado C-b Tract June, 1977

ine 12 no data were collected because of the previous observers resigning.	
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because	
collected:	made to find a new observer.
were	a ne
data	find
20	t 2
gh June 12	were made
June 2 throug	Arrangements

Temperature values were interpolated over the interval from 19 3/4 to 22 3/4 minutes.	Temperature values were interpolated over the intervals from 4 $1/4$ to 7 minutes and from 13 to 15 minutes.	
0648	1300	0702
June 13		June 14

	erval from 2 to 4 3/4 minutes.
	inte
	the
	ature values were interpolated over the interval from 2 to 4 3/4 minutes.
0	6 Temperatur
1310	9590
	June 16

Temperature values were interpolated over the interval from 2 to 4 3/4 minutes.								
0656	1346	0200	1200	0200	1300	0734	1257	0649
June 16		June 17		June 20		June 22		June 24

1304



PILOT BALLOON SUMMARY Colorado C-b Tract June, 1977

0730

June 27

	1301	
June 28	0644	Temperature values were interpolated over the interval from 1/2 to 3 1/4 minutes.
	1309	Temperature values were interpolated over the interval from 10 3/4 to 13 1/4 minutes
June 30	0737	Temperature values were interpolated over the interval from 21 1/4 to 27 1/2 minutes
	1250	



AVERAGE MIXING LAYER HEIGHT Colorado C-b Tract June, 1977

HEIGHT IN METERS

		MORNING			AFTERNOON	
DATE	0.	+5°	+10*	0.	+5*	+10:
2						
4						
6						
8						
10						
12						
13	25m	2950m	N/D	300m	N/D	N/D
14	sfc	650m	3300m	N/D	N/D	N/D
16	75m	550m	3150m	2500m	3700m	N/D
17	sfc	325m	1500m	425m	1475m	N/D
20	sfc	2825m	N/D	300m	925m	N/D
22	600m	1500m	N/D	3850m	N/D	N/D
24	sfc	600m	1900m	3400m	N/D	N/D
27	650m	N/D	N/D	1000m	3000m	N/D
28	100m	900m	2800m	175m	1150m	N/D
30	200m	1350m	3200m	625m	N/D	N/D



CLOUD COVER AND SIGNIFICANT WEATHER Colorado C-b Tract June, 1977

DATE	MORNING	AFTERNOON
2		
4		
6		
8		
10		
12		
13	clear	clear
14	clear	scattered
16	scattered	overcast
17 .	broken	broken
20	overcast	clear
22	clear	broken
24	broken	scattered
27	clear	broken
28	overcast	broken
30	overcast	overcast



						,	1		
*****	*******	RACT	*****	*****	*****	*****	******	NG ID	*****
DATE 06/13									
INV	BASE	METERS	TOP AGL	(DEG	DT/DZ C)/100M	DT/DZ (DE	G C) / I	INV	•
	88.		7.6	-,	0.45	,	71.1	5	,
*****	*****	*****		*****	*****	*****	*****	******	******
		RACT	_		METERS				
DATE 06/13	5/77 T	IME 13:00	MST	ASCENT	RATE 500	FPM	DATA 1	NTERVAL	15 .SEC.
INV E	BASE	INV 1		(DEG	DT/DZ C)/100M	DT/DZ (DE	G C)/1	INV	
	,0.		6.		0.22		0.0		
*****	*****	*************************	****	; *******	*****	****	******* ******	******	******
DATE 06/14			,						•
									
METERS	BASE	METERS	AGL	(DEG	DT/DZ C)/100M	DT/DZ	G C)/	OOM	
*	0.	. 22	9,		0.55		0.0)	1
******	*****	RACT	****	*****	****	****	, *******	*****	*****
DATE 06/14				,					
								-	
METERS	AGL	METERS	AGL	(DEG	DT/DZ C)/100M	DT/DI	G C)/	LOOM	
	8.	7	6.	4.	0.0		-5.6	88	
*****	****	*****	****	****	****	*****	****	****	****
DATE 06/16	OL CB T				METERS RATE 500	FPM	DATA 1		15 SEC.
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METERS	AĞL	METERS	AGL	(DEG	C)/100M	(0)	G CT	IOOM	
. 3	8.	57	2.		0.37		-5.	25	
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CLEA CORR. WEIGES
                                             300001NG 10 4597
DATE 06/17/77
             TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
   INV BASE
METERS AGL
                INV TOP
METERS AGL
                         INV DT/DZ
                                        DT/DZ BELOW INV
                    381.
                                  0.42
    DATE 06/17/77 . TIME 12:00MST . ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
                           (DEG C)/100M DT/DZ BELOW INV
      374.
       COL CB TRACT
                                           DATE 06/20/77 TIME 07:00MST
                          ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
                           INV DT/DZ DT/DZ BELOW INV
   METERS AGL
                   305.
                                               -0.74
                         ELEV 2088 METERS SOUNDING ID 4602
      COL CB TRACT
DATE 06/20/77 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC
  INV BASE
                INV TOP INV DT/DZ DT/DZ BELOW INV
METERS AGL (DEG C)/100M (DEG C)/100M
  . 7 - 285.
                                            -1,25
                   473.
                                 0.0
      COL CB TRACT ELEV 2088 METERS
                                            SDUNDING ID 4011
DATE 06/22/77 TIME 07:34MST ASCENT, RATE BOO FPM DATA INTERVAL 15 SEC.
                INV TOP
                            INV DT/DZ DT/DZ BELOW INV
                                 0.49
      326.
                  402
                                            rane -1.86
       COL CB TRACT ELEV 2088 METERS
                                            SOUNDING ID 4608
DATE 06/22/77 TIME 12:57MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
        THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC
          METERS AGL
                      METERS AGL (DEG C)/100M
                         COL CB TRACT
DATE 06/24/77 TIME 06:49MST ASCENT RATE 500 FPM & DATA INTERVAL 15 SEC.
   INV BASE
METERS AGL
                                         DT/DZ BELOW INV
               INV TUP
METERS AGL
                            INV DT/DZ
(DEG C)/100M
                                              -0.47
       38.
                     76.
                                 0.94
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CACACA CO LI LANCA
                            ELEV 2088 METERS SOUNDING ID 4908
DATE 06/24/77 TIME 06:49MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
    INV BASE INV TUP INV DT/DZ DT/DZ BELOW INV. METERS AGL (DEG C)/100M (DEG C)/100M
        38.
                                      0.94
        COL CB TRACT ELEV 2088 METERS SOUNDING ID
DATE 06/24/77 TIME 13:04MST - ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
        THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SPC.
           LAYER BASE LAYER TOP
METERS AGL METERS AGL
                             1500
                     ELEV 2086 METERS
                                                 - SOUNDING ID 4904
DATE 06/27/77 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
   INV BASE INV TOP INV DT/DZ DT/DZ BELOW INV METERS AGL (DEG C)/100M (DEG C)/100M
       360.
                      400.
        COL CB TRACT ELEV 2088 METERS
                                                  SOUNDING ID
DATE 06/27/77 TIME 13:01MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
         THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC
                                     (DEG C)/100M
              1000.
    COL CB TRACT COLECEV 2088 METERS SOUNDING 10 4905
DATE 06/28/77 . TIME 06:44MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
   INV BASE INV TOP METERS AGL
                            INV DT/DZ DT/DZ BELOW INV (DEG C)/100M
     76.
                   7. 152.
                               0.0
        COL CB TRACT
                           ELEV 2088 METERS . SOUNDING ID 4903
DATE 06/28/77
             TIME 13:09MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.
   INV BASE
METERS AGL
                 METERS AGL (DEG C)/100M
                                             DT/DZ BELOW INV
       168,
                   ELEV 2088 METERS SOUNDING ID 4901
DATE 06/30/77
             TIME 07:37MST
                            ASCENT RATE 500 FPM DATA INTERVAL IS SEC
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DATE 06/30/77 TIME 07:37MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC. INV BASE METERS AGL INV TOP METERS AGL DT/DZ BELOW INV (DEG C)/100M INV DT/DZ (DEG C)/100M 206. 320. -1.08 0.16 .. COL CB TRACT ELEV 2088 METERS SOUNDING ID 4899 DATE 06/30/77 TIME 12:50MST. ASCENT RATE 500 FPM DATA INTERVAL 15 BEC. INV BASE METERS AGL DT/DZ BELOW INV METERS AGL (DEG C)/100M 410. 448. -1.33

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SPC TO SOO METERS

YEAR: 1977 COL CB TRACT

MONTH! JUNE



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Carlotte of	CDL CB.	TRACT	MA ELÉV	2088 METE	RS	SOUNDI	NG ID	0
DATE 06	/13/77	TIME 06:41	BMST ASC	ENT RATE	500 FPM	DATA I	NTERVAL 1	5 SEC.
1.7 TTME	· · · · · · · · · · · · · · · · · · ·				1/6.		100	The State of
MIN	M (AGL)	HEIGHT	DEG C	STD	300M	LAPSE	M/8	DEG "
	SEC	2228	17.98		0.0		0.0	0.
2.0	150	2238	10.37	-1.08	-1.76	0.98	2.3	105
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DATE 06	/13/77	TIME 06141	MST ASCI	ENT RATE	500 FPM	DATA I	NTERVAL	IS SEC.
TIME	HEIGHT	HEIGHT M (MSL)	U-COMP.			WND SPEE	D WND D	IR
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TIME	HEIGHT M (AGL)	HEIGHT	TEMP DEG C	D/T . D STD 30	/T D/T OM LAPSE	W8 M/8	WD DEG :
0.9	3 150 7 150 7 300	2238	25.26	=1.23 =6 =1.77 =6	0 48 88 3 95 402	6.2	200
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DATE 06	/13/77	TRACT		NT HATE 500	FPM DATA	INTERVAL 15	SEC.
TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPE	EED WND DIR	· :
0505	76 178 348	2088 2164 2261 2436	1.8	7.5	4.5	2004 204 190	
2505	524. 683. 780. 857.	2612	2.0 0.7 0.3	8.0	12.0	184	
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55.05.05	1267 1354 1477 1583	3021 3099 3181 3273 3355 3442 3565 3671	1 . 1 0 . 1 2 . 3 -1 . 8 -1 . 6 -1 . 0 0 . 4	8 1 9 3 2 6 2 5 7 5 7 7	80 70 80 40 90 0 74 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	188 181 183 184 167 167 172 185	
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			TRACT		DBB METE		SDUNDI	NG ID 462	0
υ	ATE 06	/14/77	TIME 07:02	MST ASCE	NT RATE	500 FPM	DATA I	NTERVAL 15	SEC.
1.5	TIME	HEIGHT	HEIGHT M (MSL)	TEMP DEG C	DIT	D/T 300M	D/T LAPSE	W8 M/8	WD DEG
. ,	1.0	SFC 150	2238		0.81	. m	4.34	1:5	183
	2.0	\$FC 1508 * 3000 412. 5000	2238 2316 2388 2500 2588	16 19 17 00 17 45 16 7.3 15 92 15 57 12 74 3 69		0.0 1.41 -0.53 -2.65 -1.07 -1.60	4.34 2.40 0.27 1.86 1.33	Seat	
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, As	18.5	5915:	5000	-3.80	7 49	=2.80 =1.15	9:13		
	, ,	3							4
		COL+ CB	TRACT	ELEV-2	BB METE	RS	SOUNDI	NG ID 462	0
٥	ATE 06	· · · · · ·	TIME 07:02	* 2.1	- 3% :			e the said	A CONTRACT CONTRACT
-			* /		•				
•	TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP	V-CC	MP A	WND SPEE	D WND DIR	, AP 41
	1	76.		-1.0 -0.6	V-CC	MP S		40.	
	0.0	76 152	2088 2164 2240	0.1= 0.0= 0.2= 0.2=	V-CC	MP 'S	1 9	141 185 183	
	0.0	76 152	2088 2164 2240	0.1= 0.0= 0.2= 0.2=	V-CC			40 141 185 183 785	
	0505050505	76. 1529. 229. 381. 453.	2088 2164 2240	0.00 0.00 0.00 0.00 0.00 0.00 0.00	V-CC		1 9	40 141 185 183 178 185 184 186	
	05050505050505	76. 15208 15208 15310 6868 6868 914	2088 2088 2084 2044 2044 2044 2045 2045 2045 2045 204	WWW.COOOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	V-CC	27 9 8 7 50 4	0 9 1 9 1 8 5 7 6 6 7 9 7 4	40 141 185 183 178 185 184 186 198 198	
	05050505050505	76. 1529. 2381. 457. 533. 610. 6862. 838. 914. 991.	2088 2088 2084 2044 2044 2044 2045 2045 2045 2045 204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		27 9 8 7 50 4	0 9 1 9 1 8 5 7 6 6 7 9 7 4	40 141 185 183 178 185 184 186 188	
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	05050505050505	76. 1529. 2381. 457. 533. 610. 6862. 838. 914. 991.	2088 2088 2044 2047 2047 2047 2047 2047 2047 2047	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		277987 7594 114685 180054	1 5 9 9 1 9 1 8 5 6 6 6 7 9 7 4 7 7 7 7 7 9 6 8 7 3 7 1	40 141 185 183 185 186 188 190 196 195	



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DATE 06/14/77	TIME: 13:11	OMST ASC	ENT RATE 5	00 FPM	DATA IN	ITERVAL 1	5 SEC.
TIME HEIGHT	HEIGHT M (MSL)	TEMP DEG C	DAT	D/T 300M	D/T LAPSE	WS M/8	DEG
0.8 150 1.5 300	2238	26.29 23.66 21.97	-2.63 -1.69	0.0	*1.18	9.3	230
2.2 500 912	2238 2388 2500 2588 3000	25 26 26 26 27 20 20 20 20 20 20 20 20 20 20 20 20 20	-1.69 -0.69 -1.23 -4.21 -11.05	-5.38 -3.84 -4.44	#2.45 #0.91	9.3 16.0 8.4 7.6	218 199 198
8 1 1912 10 4 2912 12 5 3912	4000 5000 6000	3,69 -4,97 -15,34		=8 39 =9 20 =8 26	-5.46 -6.27 -5.33	18.9	183
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	V. S.	yki.	-		SOLIDAYA		
DATE 06/14/77	TRACT	A		14 2 . 1 . 1 . 1 . 1	2 1 1 18 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18	All the state of t	5 SEC.
	-		,				- 63
TIME HEIGHT	HEIGHT M (MSL)	U-COMP	V-COM	P X	WND SPEED	NND DI	(R)
0.0	2088.	3.5	V-COM M/S	P	M/S 9.3 4.8	DEG	IR
TIME HEIGHT MIN M (AGL)  0.0 76. 1.0 212. 1.5 308. 2.0 384. 2.0 470.	2088 2164 2300 2396 2472	U-COMP M/S 7.1 3.5 10.7 12.0 5.1	9 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WND SPEEL M/S	WND DI DEG 2307 2233 228	
0 0 76 1 0 212 1 5 308	2088. 2164. 2300. 2396.	3.5	V-COM M/S	D 2200 234 3 5 6	M/S 9.3 4.8	DEG	
0 0 76 1 0 212 1 5 308	2088 2164 2300 2396 2472	3.5	9 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M/S 9.3 4.8	DEG	
0 0 76 12 10 2128 10 308 20 384 27 0 598 20 598 20 598 20 50 1037 20 1	2088 2164 2396 2396 2458 2458 2798 2013 2013 2013 2013 2013 2013 2013 2013	3.5	6 3 8 1 9 7 2 6	0 2 0 2 0 2 3 4 3 6 0 0 0 7 0 0	M/S 9.3 4.8	DEG 230 227 233 228 219 2143 163 191 199 198	
0 0 76 12 10 2128 10 308 20 384 270 20 384 270 270 270 270 270 270 270 270 270 270	2088 2164 2396 2396 2472 2586 26893 2898 3130 3325 3437 355 3437 35740	7 15.77 10 0 1 2 8 9 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 5	6 3 8 1 1 0 7 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 2 2 0 2 3 4 3 5 7 6 0 0 0 7 7 0 3 3	M/S 94.6.2 16.6.6 10.6.6 10.6.6 10.6.6 10.6.6 10.6.6 10.6.6	DEG 23.77 23.38 22.16 14.3 16.3 19.9 19.8 19.9 19.8 19.9 20.5	
0 0 76 12 10 2128 10 308 20 384 270 20 384 270 270 270 270 270 270 270 270 270 270	2088 2164 2396 2396 2472 2586 26893 2898 3130 3325 3437 355 3437 35740	7 15.77 10 0 1 2 8 9 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 8 2 5 5 5 5	6 3 8 1 1 0 7 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 2 2 0 2 3 4 3 5 7 6 0 0 0 7 7 0 3 3	M/S 94.6.2 16.6.6 10.6.6 10.6.6 10.6.6 10.6.6 10.6.6 10.6.6	DEG 23.77 22.73 22.16 22.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23.16 23	
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COL CB	TRACT	ELEV 2	088 METE	ER\$	SOUNDI	NG ID	0
DATE 06/16/77	TIME 06:56	MST ASCE	NT RATE	500 FPM	DATA	NTERVAL 1	S SEC.
TIME HEIGHT MIN M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	DIT	WS M78	DEG
SFC 150 2.0 7 300 2.7 412. 3.3 7 500 6.0 912. 12.4 1912. 18.7 2912. 24.6 3912.	223A 2388 ?2500 2588 3000 4000 5000	16.00 15.30 15.20 15.10 15.10 13.90 -3.40	-0.70 -0.10 -0.10 0.0 -1.20 -8.90 -8.40 -7.80	0 . 0 0 . 59 -0 . 20 -0 . 20 -1 . 77 -3 . 35 -3 . 74 -3 . 15	3.52 2.73 2.93 2.13 1.16 -0.42 -0.81	0.0 1.2 0.2 1.6 2.9	126. 179. 171. 68. 160.

COL CB	TRACT	ELEV 20	AR METERS	SOUNDING	10 0	
DATE 06/16/77	TIME 06:56	ASCEN	T RATE 500 FP	M DATA INT	ERVAL 15 SE	С
TIME HEIGHT	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED	WND DIR DEG	diam's
0.0 0 76. 1.0 152. 1.5 229. 2.0 305. 2.5 381. 3.0 457. 3.5 610. 4.5 686. 5.0 76. 6.0 914. 6.5 991. 7.0 1067. 7.5 1143. 8.0 1219. 8.5 1295. 9.0 1372. 9.5 1450. 10.0 1620. 11.0 1620. 11.0 1620. 11.5 1772. 12.0 1850.	2088 2164 2240 2317 2393 245621 2698 2774 2850 2900 2900 3079 31531	0.0 -1.9 -0.9 -0.2 -0.4 -3.0 -3.4 -3.4 -3.9 -3.4 -0.5 -0.5	0 0 5 7 4 1 3 8 2 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 · 0 2 · 0 1 · 2 0 · 4 0 · 1 0 · 5 3 · 1 2 · 7 3 · 9 4 · 4 3 · 6 1 · 6 1 · 7 2 · 1 1 · 9 3 · 1 2 · 1 1 · 9 3 · 1 2 · 1 1 · 9 4 · 5 5 · 6 6 · 6 6 · 6 7 · 7 8 · 7	777 1272 1777 2177 2177 2177 2177 2177	2 2000 2 2000 2 2000
9.5 1450. 10.0 1540. 10.5 1620. 11.0 1696. 11.5 1772. 12.0 1850.	3383 3460 3538 3628 3708 3784 3860 3938	-0.1 -0.1 -0.4 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5	34.1 4.2 8.8 2.8	6.3 6.1 6.3 5.9 5.8 6.3	239 228 229 242 242 247	



		10			,			, '
	COL CB	TRACT	ELEV	2088. METER	187	SOUNDI	NG ID	
DATE	06/16/77	'TIME 13:4	6MST ASC	ENT RATE 5	OD FPM	DATA I	NTERVAL	15 SEC.
TIM	E HEIGHT	HEIGHT	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS. M/S	WD DEG
	8FC 9 150 5 300	2238 2388	25 43 23 36 21 83	-2.07 -1.53	0.0	=1.86 =2.80	5 1 6 3 5 1	\$08 \$25 \$20
nnne	412. 500. 7 912. 8 1912.	2500 2588 3000	19 23 19 35 15 10 4 64	-1.50 -0.98 -3.60 -11.05	-6.81 -5.34 -8.18	*3.88 *3.842 *5.25	0000 0000	201 210 196 204
lŤ:	3912	5000	<b>3</b> 34	•7.24 •5.36	-4:26 -4:26	0.64 -1.33	9,2	
1.						The property of		
DATE	COL CB	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ELEV SMST ASC	The state of the s	A STATE OF THE STA	THE THE	NG ID	15 SEC.
-5			Call And A Call Call Call	To part (40%) which is a factor	No. of the same	41.		
TIM	HEIGHT M (AGL)	HEIGHT	U-COMP M/S	V-COM M/8		WND SPEE	D WND DE	IR
	M (AGL)	HEIGHT M (MSL) 2088. 2164. 2264.	U-COMP M/S				DE (	
	M (AGL)  76. 176. 289. 411. 572. 741.	M (M5L) 2088. 2164. 2264. 2377. 2499.	U=COMP M/S				DE C 221	
	M (AGL)  76. 176. 289. 411. 572.	M (MSL) 2088. 2164. 2264. 2377. 2499.	U-COMP M/S 3.35.60 12.35.60 12.35.60				DE 0	
	M (AGL) 76. 776. 289. 411. 5772. 7869. 1000. 1255.	M (MSL) 2088. 2164. 2264. 2377. 2499. 2660.	U-CC MANAGER AND CO OF STATE O				DE C 221	
M 00	M (AGL)  76. 776. 289. 411. 574. 60. 1000. 1155. 1607. 1800. 2001.	M (MSL) 2088 21644 221664 22177 22669 23169 3315095 36887 4301	S MANUTE COLUMN THE SOUND OF TH	M/8	933777746W89W40W0	5 17 9 3 9 7 5 8 4 5 4 5 8 4 6 2 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	DE 220 20 20 20 20 20 20 20 20 20 20 20 20	
M 00 NNMM441010 6677 0800 000-	M (AGL) 76. 76. 76. 76. 76. 76. 76. 76. 76. 76.	M (MSL) 2086 21644 216647 2246697 226697 335698 34090 44554 45597	S MANUTE COLUMN THE SOUND OF TH	H/8	933777746W89W40W0	5 17 9 3 9 7 5 8 4 5 4 5 8 4 6 2 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	DE 220 20 20 20 20 20 20 20 20 20 20 20 20	
1 00 NNMM 441010 6 67 7 0 80 0	M (AGL) 76. 76. 76. 76. 76. 76. 76. 76. 76. 76.	M (MSL) 2088 21644 221664 22177 22669 23169 3315095 36887 4301	M/S 3340-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-435-680-00-40-40-40-40-40-40-40-40-40-40-40-40	N/8	20000000000000000000000000000000000000	M/S	DE (2012)	



V	1		•			, i	
COL CB	TRACT	ELEV 2	OBB METE	RS	SOUNDI	NG ID 4597	
DATE 06/17/77							Cy
TIME HEIGHT	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS W	D G
SFC 150 2.0 300	2238 2388	16.37 16.90 17.52	0.54	0.0	3.10	0 0 0 8 0 4	0
7 412 3.3 500 912 12.5 1912	3000.	17.36 17.01 15.56 8.67	0.20 -0.71 -1.45 -6.88	-1 94 -1 41 -1 78 -2 57	1.51	2.8	3
7 19:1	5000;		-6,69	-1,69			
COL CB	TRACT	ELEN S	OBB METE	RS .	SDUNDI	NG ID 4597	
DATE 06/17/77							C.
MIN M (AGL)	HEIGHT (MSL)	U-COMP M/S	V-C0		WND SPEE	D WND DIR	. 11
0.0 0.5	2088.	0.0	0	.0	.0.0	102.0°	
1 0 1 5 229 2 0 305	2164	0.0 =0.0	=0 =0 =0	7	0 8 0 7 0 3	359	
381 350 457 35 533 40 610	2469 2545 2621 2698	=0.4 =0.4 =1.3 =1.4	1			131	
4 5 686 762 5 5 838 6 0 914	2774	-0.1	3	3	3 8	149 152 179 210	
6.5 991 7.0 1067 7.5 1143 8.0 1219	3079 3155 3231	7 20.7 8.3	3	.5	4 6 3	230 220 217 219	,
8 5 1295 9 0 1372 9 5 1448 10 0 1524	3383 3460 3536 3612 3688 3764 3842 3918	5.2	44	5885	5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	220 2228 2234 2339 2339 237	
10.5 1600 11.0 1676 11.5 1754 12.0 1830	3688. 3764. 3842.	5.8 5.3 5.8	333	2 8	05115	238 239 239 237	
			-			2502 405 335 350	



	COL CB	TRACT	ELEV 2	1088 METE	ERS	SOUNDI	G ID 49	0.2
ATE 06	/17/77	TIME 12:00	MST ASCE	NT RATE	500 FPM	DATA I	TERVAL 1	5 SEC.
TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	ws M/S	wD DEG
0.7	SFC 150	2238	27.31 23.92	-3.38	-3.92	-0.99	13.3	210
1.3 2.0 2.6 5.2	300 412. 500	2388 2500 2588	23.03 22.84 22.33	-0.90 -0.19 -0.50	-1.54 -0.51 -1.55	1.39 2.41 1.38	20.5 20.4 5.0	189 181 178
11.8	912. 1912. 2912.	3000. 4000. 5000.	19.32 14.83 4.65	-2 48 -5 02 -10 18	-2.09 -2.86 -6.14	0.84 0.07 -3.21	5.0	178. M
20.8	3912.	6000.	-4.38	-9.03	-4.22	-1.29		

The section of the se	COL CB	TRACT	ELEV ZOR	A METERS	SOUNDING	ID 4902	
DATE 0	6/17/77	TIME 12:00	MST ASCENT	RATE 500 FPM	DATA INT	ERVAL 15 SE	С.
TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED	WND DIR DEG	***************************************
0.0 0.5 1.0 1.5	76. 248. 336. 412. 488.	2088 2164 2336 24500 2576	3.1 0.6 6.4 1.2 0.4 -1.2	5.4 6.1 21.9 16.2 20.5	6.2 22.8 16.2 20.4	210 186 196 184 181 177	7000x
0.50 1.50 2.50 5.50 5.50 5.50 5.50 5.50	565. 641. 717. 793. 875.	2576 2653 2729 2805 2881 2963	1 . 6 -1 . 2 0 . 2 -2 . 0	19 25 4 3 3 3 3 3 3 4 2 2 7 2 2 7 2 2 2 2 2 2 2 2 2 2 2 2 2	20 - 3 20 - 3 20 - 3 3 - 6 3 - 7 4 - 6	184 160 182 139	
7.5 6.5 7.5 8.5 9.5	951. 1027. 1103. 1179. 1256. 1332.	3039 3115 3191 3267 3344 3420	2.3 -0.7 -1.1 -0.4 1.2 2.6	14.0 10.8 12.0 13.6	10.8	160 182 139 159 198 177 174 185 189 199	garana a
8 - 5 9 - 0 9 - 5 1 0 - 0	1408 1484 1560 1637	3496 3572 3648 3725	5.7 4.4 2.1 8.2	16.6 21.2 20.0 14.7	13.6 17.0 17.6 21.7 20.1	199 192 186 209	17 AAAA/N



COL CB	TRACT	the state of the	6. 7. 1. 1 M. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	4	10 - 10 to 10 10 10 10 10 10 10 10 10 10 10 10 10	44) Jak 44 14	the state of the s
TIME HEIGHT		TEMP DEG C	D/T- SID		D/T LAPSE	W8 M/8	\$ * WD
SF C		18 70		300M -0.0		3.1	DEG
2.0 300 2.7 412. 3.3 500	2238 2388 2500 2588 3000	16 82 15 74 15 12 11 91 2 75	-0.99 -0.89 -0.81 -3.21	- am 1 // 1	0.64 1.51 0.09 0.10 0.39 0.12	10.1 10.6 7.3	199 195 195 195
12.3 1912 18.8 2912	3000 4000 5000	2.75 -4,77	=3.21 -9.16 -7.51	-2.84 -3.03 -2.53 -2.81	0.12	7,3	
San to the san to the san to	TRACT		1. P 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	State of the state	A CONTRACTOR OF THE PARTY OF TH	The state of the s	The time was
DATE 06/20/77		MST ASC		500 FPM			
0.0	HEIGHT M (MSL)	% M/\$ (	M/	<b>S</b>	M/S	SSO	
0 5 76 1 5 152 1 5 229	2164 2240 2317 2393	2000		000	7.0	199 197 195	
2.5. 381 457. 3.5. 533	2469	2.4	10	2	9 8 10 6 10 6	94 195	
4 0 610 4 5 686 5 0 762 5 5 842	2698 2774 2850 2930	2.4		•	9 0	95 196 197	
6.0 918. 6.5 994. 7.0 1070.	3006.	2.3	7	0	7.2 8.4 7.8	199 195 205	
8.5 3 300	3158 32312 33479 3564	300		.0	9.9	200	
9 0 1391 9 5 1476 10 0 1552 10 5 1633 11 0 1709	3640	2 7 2 2 1 0 1 0		2	999 699 886 998	194 189 186 185	
11.5 1785 12.0 1861	3873.	-0.4 -0.4	8	.6	6 2 9 9 8 4 8 6 9 8	105 177 160	

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and the second		10 s 10 s 10 s				The same						
DATI	E 06	1000	. cB	TRACT	3:00	ELEV	2088 M	天意如此 二	FPM	SOUN	garant ages cares (1)	4602 15 SEC.
	IME MIN	HE:	IGHT AGL)	HEIG M (MS	<u> </u>	TEMP DEG. C	D/T SID		/T OM I	D/T APSE	WS M/S	WD DEG
	0.8		SFC 150 300	223 238 250	8 - 8	22.84 19.99 19.32	-2.8 -0.6	7 0	61	0.32	15. 28. 25.	204
	9 6	2	500 912 912	258 300 400 500	8000	18 2 10 7 0 4	0.8	3 -3	28	1.87	25.	<u> </u>
-	<b>3 . U</b>						- K.					

COL CB.	TRACT E	LEV 2088 METER		
DATE 06/20/77	TIME 13:00MST	ASCENT RATE 5	OO FPM DATA INTE	RVAL 15 SEC.
TIME HEIGHT		OMP V-COM	P WND SPEED	WND DIR
0,0	2088.	5.3 6.	3 8.2 6.4	220 195
20628	2294	1 0 23 15 3 31 15 4 32	26557	NNNNN OSOGO OSOGO
3 0 511 587 4 0 663	2599 2675 2751 2827	18 4 38 14 8 28 17 8 34 20 1 38	100 T	0007 0007 0007
5.0 816 5.5 892 968 1044	2904 2980 3056 3132	17.8 16.1 8.5 8.1 12.	7 29 8 9 8 14 8	215
7 0 1120 7 5 1196 8 0 1273 8 5 1349	3284 3284 3361 3437,	2792	₩540 10	216
9 0 1425 9 5 1501 10 0 1577 10 5 1654 11 0 1733 11 5 1817	3589 35865 36642 3890 39988	3 0 1 3 5 7 7 7 5 10 0 0 0 0	7 9 12 7 12 7 0 0 2	2418. 2418. 2416. 2410. 2410. 2410.



							4,	
DATE 06	COL CB	TRACT		OBB METE		SOUNDIN DATA IN	IG ID 40	
TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
0.7	SFC 150 300 412.	2238 2388 2500 2588	18.43 13.79 12.40 12.55 12.28	-4.64 -1.39 0.17 -0.29 -1.19	0.0 -3.06 -0.36 -0.18	-0.13 2.57 2.75 2.03 1.84	0 · 6 · 7 · 6 · 5 · 0 · 3 · · 0	0. 7. 14. 26. 38.
2.4 5.1 11.7 18.0 24.2	912 1912 2912 3912	3000 4000 5000 6000	10.99 6.05 -2.05 -10.07	-1 19 -4 94 -8 20 -8 02	-0.90 -1.09 -1.85 -3.42 -3.11	1.84 1.08 -0.49 -0.19	3.0	148.
Subsequence of the second seco		en e	i de la companya de l La companya de la co	energia de la constitución de la c	agging som generalisere en			uniques commence de la constante de la constan
DATE 06	COL CB	TRACT TIME 07:34		OAR METE			G ID 40 ITERVAL 1	
TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-C(	)MP /S	WND SPEER	WND DI DEG	R

.

TIME HEIGHT HEIGHT U-COMP V-COMP MIN M (AGL) M (MSL) M/S M/S	WND SPEED WND DIR
0.0 0.2088. 0.0 0.0 0.5 76. 21640.1 -0.9 1.0 287. 23750.5 -2.7 1.5 364. 24521.1 -1.9	0 0 0 0 0 5 0 5 0 0 0 0 0 0 0 0 0 0 0 0
1 5 364 2452 -1 1 -1 9 2 0 440 2528 -1 1 -2 6 2 5 517 2605 -1 6 -1 8 3 0 593 2681 -3 5 -2 2 3 5 669 2757 -4 1 -2 1 4 0 745 2833 -4 1 -1 2 4 5 821 2909 -3 3 -1 3	0 9 5 10 2 31 23 24 4 1 58 4 6 6 3 4 6 6 7 4
5.5 974. 30622.7 -1.2	
6.0 1050. 31383.1 -1.4 6.5 1126. 32144.0 0.3 7.0 1202. 32903.4 0.1	3 6 69 64 7 64 66 67 67 68 69 69 69 69 69 69 69 69 69 69 69 69 69
8.0 1355. 34433.1 0.4 8.5 1431. 35192.6 1.6	3 4 91 3 1 91 3 1 97 3 1 122 3 3 149 3 9 166
9.5 1583 3671 -0.9 3.8 10.0 1660 3748 -1.2 3.5 10.5 1736 3824 -1.1 3.0 11.0 1812 3900 -1.8 3.3 11.5 1888 3976 -2.1 3.5 12.0 1964 4052 -2.6	3 7 160 3 2 160 3 7 151 4 1 148 4 8 147



		4 1	1.7	No. of the last		,		•
DATE 06	The property of	TRACT	E THE PARTY SHEET STATE	the state of the sail of the sail		SOUNDI!	Arriver Hill Both	7
TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG:
0.8	SFC 150 300	2238 2368 2500 2588	21.79	-2.68 -0.85	0.0 -2.79 -3.34	-8:43	6:0	270, 269, 284,
2000	412 500 912 1912 2912 3912	2588 3000 4000	19 11 18 25 16 93 15 93 11 36 1 02	-0.99 -4.53 -10.34	-3 54 -3 19 -6 89 -7 14 7	-0,61 -0,27 -3,97 -4,21	3 5	277 270 235 319
12.0	\$412:	2000;	-16:34	-8.44	-8.51	0.03 -5;58		
	COL CB	TRACT		I AR WETE	2	SHUNDY	NG ID 46	11
DATE 06	The same of the same	TIME 12:57!	The Carlot of the Control of the Con			Commence of the second	A ST AREST OF THE STATE OF	
- TIME	HEIGHT M (AGL)	,	U-COMP M/S	V-CO	MP	WND SPEE	D WND DI	R
0.50	76. 189. 265.	2088, 2164, 2277, 2353.	43.65		.5 .5		258 274 284	
2000	341 429 514 593	2429 2517 2602 2681	4.8 4.6 5.7 5.9	-0 -0 -0 -0	11 11 -	7 5 7 9	285 275 269 265	
455	749; 849; 982;	2937 3070	94407			445	22.22.22.22.22.22.22.22.22.22.22.22.22.	
6 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	1153 1343 1540 1750	3241 3431 3628 3838	4.8 1.3 3.1	0 5	.5	5.0	251 248 211	
8899	2129 2288 2440 2547	4217 4376 4528 4635	0:1 2:3 0:5	2	3	1 3 2 0	165 247 195	

The second secon



DATE 06/	COL CB	TRACT	Same Brilly of the Bar of the Care	2 (1)		SOUNDIN DATA IN	1	
TIME	HEIGHT	HEIGHT M (MSL)	week the street	90.00	*	7 35 1 4 1 min	WS M/S	WD DEG
1.0	SFC 150 300 412	2238 2388 2500	15.74 15.11 15.38 14.68 122.83 -2.82	0.00	0.0 *1.78 0.53	1.15 3.46 1.68 1.32 1.13 -0.78	0 0 7 3 5	101.
12.5	500 912 1912 2912	2238 2388 2500 2588 3000 4000 5000	14.83 5.87 -2.82	-1.86 -5.66	-1 60 -3 71 -3 24	1.13 -0.78 -0.31	5.0	353;
						A STATE OF THE STA		<u> </u>
DATE 06/	COL CB	TRACT TIME 06:49M	Contract the same	The same of the same of	William States to the state of	DATA IN	My Charles The Control of	The state of the s
TIME	HEIGHT	M (MSL)	U-COMP M/S	V-CO	MP.	WND SPEED	WND DI	(R
0.5	2005 1520 2005	2088 2164 2240 2317		-0	8 6 4	2.57	70 102 120 120	
5050	381 457 533 610	2469 2545 2621 2698	3.7 -4.5 -3.4 -2.8	3	825	4.4 5.3 4.7	123	
95.5	686 762, 838, 914	2850 2926 3002	0.3	0 0 0 0		0.4	204 203 107	
7.0 7.5 8.0	1067	3155 3231 3307 3383	2 0 5		2 5 7	3.0	96 39 25	
8,5 9,5 10,0 10,5	1448.	3460 3536 3612 3688 3764	2.3	- 4 - 4 - 3 - 1 - 2	• 5	4400	360 335 332 333	
10.5	1600. 1676. 1756. 1833. 1909.	3688 3764 3844 3921 3997 4080	2.69	• 5 • 5	1	5555	333 3340 347 353 358	
			The same of the sa		W. STY ST	8 To 1 . 1 . 1 . 1 . 1 . 1 . 1		



A THE STATE OF THE		COL CB	TRACT	ELEV	2088 METE	RS	SOUND	ING ID	1906
. D	ATE: 06	/24/77	TIME 1310	4MST ASC	ENT RATE	500 FPM	DATA	INTERVAL	15 SEC.
	TIME	HEIGHT M (AGL)	HEIGHT H (MSL)	TEMP DEG C	D/T STD	300M	D/T LAPSE	WS WS M/S	WD. DEG
	0.8	SFC 150 300	2238 2388	27.56 24.03 22.62	-3.54 -1.41	0.0 -2.73 -5.87	0.20	TOWN COMMON LAND TO 1 A	180 338 343
1	2256	412. 500 912	2500 2588 3000	20 03 20 11 14 38 5 58	-1.59 -0.92 -4.47 -10.02	#6 78 #6 78 #8 95	*3 85 *3 85 *6 02 *5 23	7.5 7.1 4.8	340 330 350 339
\$	14.7	1912 2912 3912	4000 5000 6000	-4 19 -12.04	=8.84 =8.83	-4.78 -3.90	-1.86 -0.98	4.3	26,
						N 2 3.5. A		4, 4, 4, 1, 1, 1	¥
		COL CB	TRACT		2088 METE		Shuni	DINGSIDS	4906
'n	ATE OF		TIME 13:0		人物独立 二十年	THE WEST TO STATE OF	A STATE OF THE STA	and the same of the same of the	15 SFC
	44. 40	7			EULTALE		DAIA		
·	TIME		HEIGHT M (MSL)		V-CC	Carrie of the Carrie		ED WNBE	
	TIME	- 20-20 1 1 7				Carrie of the Carrie			
	TIME	- 20-20 1 1 7		U-COMP M/S -0.09 4.84 -2.3 -3.3		Carrie of the Carrie		EED WNDE	DIR 0
	TIME	HEIGHT M (AGL)	HEIGHT M (MSL) 2088 2164 2164 2164 2164	U-COMP M/S		Carrie of the Carrie			DIR 0
	TIME	HEIGHT M (AGL)	HEIGHT M (MSL) 2088 2164 2164 2164 21640 21640	U-COMP M/S -0.09 4.84 -2.3 -3.3		Carrie of the Carrie		EED WNDE	DIR 0
	TIME	HEIGHT M (AGL)	HEIGHT M (MSL) 2088 2164 2164 2164 21640 21640	U-COMP M/S -0.09 4.84 -2.3 -3.3		Carrie of the Carrie	WND SPE M/S 7.33 13.38 7.99 66.47 11.48 7.99 67.5	EED WNDE	DIR 0
	TIME	HEIGHT M (AGL)	HEIGHT M 8 8 4 4 5 8 8 6 1 1 7 1 7 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 1 9 1 9 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	U-COMP M/S -0.09 4.84 -2.3 -3.3		Carrie of the Carrie	WND SPE M/S 12338 70047 1077 1077 1077 1077 1077 1077	EED WNDE	DIR 0

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	The state of the s	TRACT	and the application of the second	" with the state of the state o	The state of the	The state of the state of the	d. A. A. Santana	
DATE 06	/27/77	TIME 06:30	ASCE	NT RATE	500 FPM	DATA IN	TERVAL	15 SEC.
TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
0.8	SFC 150 300	2238 2388	22.84 20.23 18.64	-2.61 -1.58	0.0 -2.96 -3.16	* =0.03 =0.23	0.0	36. 65.
2300	412. 500 912. 1912. 2912.	2238 2388 2500 2588 3000 4000	17 54 17 09 14 20 6 15	-2.61 -1.58 -1.07 -0.49 -2.53 -8.42	29 12	-0.03 -0.23 -0.64 -0.12 -0.52	25.9	299
18,3	2912.	5000.	-1.86	-8,01	3,61	0.52		
	COLLER	TRACT	FIEWS	ORR METE		SOUNDIN	G TD 4	904
	and the second second	TIME 06:30!			* 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Children Comment of the State o	The state of the s	1.6 1. 10 models 12 mm 12 mm 13 mm
TIME	HEIGHT M (AGL)	HEIGHT	U-COMP M/8	, m/	<b>D</b> 47	WND SPEED	WND D	IR .
0.0	206.	2088 2164 2294 2372 2448	0 0 0 8 0 9		0.0	0.0	42 31	73.05
2.5 2.5	284. 360. 438.	2372. 2448. 2526.	0.7	-0 -0	• 0	0.6	296 300 289	Mary 2 com
3 5 0	517. 593. 669. 745.	2605 2681 2757 2833	2 5			4 6 3 2	212 243 251	
5.5	898. 974.	3062	5 2 5 2			6.0 5.6	273 283 292	
7. 0 7. 5 8. 0	1128.	3216 3292 3368	3 i 2 6 2 6		1 6 5	4 4 4 4 4 4	315 324 324	Property of
9.5	1513	3444 3520 3601	2.8 3.1		9 8 0 - 3 -	4.0	325 321 320	
10.5	1666. 1748. 1831. 1909.	3754 3836 3919 3997	3.4 7 3.6 4.0		9 1 5 8	0892 0892 5556	3219 3219 319 3180	
	The Sales							
	250					* -	,	

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DATE 04	I with the late of		· · · · · · · · · · · · · · · · · · ·	The state of the state of the state of	SOUNDI	NG ID 4907 NTERVAL 15 BEC.
DATE UST	G1/11		MSI ASLE	AT A THE MAKE	VAIA 4	NIERVAL 15 GEU.
TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD 30	OM LAPSE	WS WD WD
0.9	3FC	2238	27.14 24.68	-2.46 / -2 -1.552	0 0 72	5 1 320 6 1 294 8 3 284
₹.5	412.	2388	22.14	-1.55 -2 -0.72 -2	76 0 17	5,6 274.
12 0	1912	3000.	17 71	•3.55 •7.72 •1	.46 0.47 .46 1.47	3.7 7.8 232
24.3	3912	5000. 6000.	24.68 23.14 22.14 21.80 17.71 10.25	-9:83 -4	43 0.50 04 =1.11	
						and the second
						The state of the s
OATE N	1 . n - 29 " 1 . He 1	The state of the s	A STATE OF THE PARTY OF THE PAR	THE THE PARTY OF T	SOUNDI	
DATE UST	21/11	TIME 13101	MSI ASLE	NI KAIE SUU	PER DATA 1	NTERVAL 15 SEC.
TIME			4.1	Comment of the state of the sta	The state of the s	2 your San
MIN	M (AGL)	M (MSL)	M/S M/S	V-COMP M/S	WND SPEE	D WND DIR
0.0	*			-3.9	MND SPEE	DEG:
MIN 0 0 0 0 5 1 0	76. 176. 253.	2088 2164 2264 2341	3.3 3.8 6.3 7.2	73.9	WND SPEE M/3	320. 320. 304. 290. 282.
0.0	76. 176. 253. 330. 482.	2088 2164 2264 2341 2418 2494	3.3 3.8 6.3 7.2	2.3	MND SPEE M/S 14.6 6.7 7.4 9.5 8.4	DEG
0.0	76. 176. 253. 330.	2088 2164 2264 2341	3.3 3.8 6.3 7.2	73.9	WND SPEE M/8	DEG
0.0	76 176 253 330 406 4828 534 717 787	2088 2164 2341 2494 2494 2077 2077 2077 2077 2077 2077 2077 207	3.3 3.8 6.3 7.2	20 3 6 3 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WND SPEE M/8	DEG
0.0	76 176 253 330 406 4828 5534 711 787 871	2088 2164 2341 2418 2470 2646 2779	3.3 3.8 6.3 7.2	73.9	WND SPEE M/3	DEG 320 304 290 282 285 2774 2774 2774
0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	76 176 253 3306 482 558 634 711 787 871 960 1036 11216	2088 2164 2341 2419 2419 2570 2646 27799 28759 29548 31212 33304	3.3 3.8 6.3 7.2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	54 67 7 45 8 45 7 7 58 43 7 7 66 0 7 7 66 0 7 7 8 8	DEG 320 320 304 285 285 277 274 274 274 274 274 274 274 274 274
05050505050505050505050505050505050505	76 176 253 330 406 4828 5534 711 787 871	20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 20104 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		The state of the s	114 - 120 1 2			in the same
	L CB TRACT					P.
DATE 06/28/	77 TIME 06:4	14MST ASC	ENT RATE 50	O FPM DATA	INTERVAL 15 SEC.	Š.
TIME HE	IGHT HEIGHT-	TEMP DEG C	D/T STD 3	D/T D/T	W8 WD M/8 DEG	11.
1.0	SFC 150 2238 300 2388	16.46 15.65	-0.81 -0.18	0.0 0.18 2.75 0.36 2.57	0.0	
3.3	SFC 150 2238 300 2388 412 72500 500 2588 912 4000 912 4000	15.38	0.35	1.25 1.68	0 0 24 1 8 246 2 4 267 3 8 338 7 5 338	
12.5	912, 5000,	-1:19	-6;01	6:19 2:74	300	
	24	1 A. A. P.	College Des	* water		2.
	L CB TRACT	ELEV	2008 METERS	SOUND	ING ID 4905	
14 .		and the state of t	et set transference all contrates (	The state of the s	INTERVAL 15 BEC.	
TIME HE	IGHT HEIGHT	U-COMP	V-COMP M/S	WND SPE	ED WND DIR	· And
0.0	0. 2088. 76. 2164.	0.0	0.0	0.0	0	`
	1520	0.9 0.0 0.2	0 0 0	. 0:5	226.	
3.5	381 2469 457 2545 533 2621 610 2698	-1.0 -1.7 -1.6	3 1	3 5	2223	
-4 0 5 0 5 0 5 0	762.		-4,9			
6.0 6.5 7.0 7.5	914 3002 991 3079 067 3155	0.7 1.9 5.5	-4 9 -4 9	5 2	348	2
	223. 3311. 299. 3387. 375. 3463.	1,7 3.7	-3.8	4 2 5 0 4 6	336. 324. 307.	
9 . 5 9 . 5 10 . 5 11 . 5 12 . 0	299 375 451 527 3615 504 3692	3.5	7 4	6.3	292 282	11.00
10.5	760. 3848. 836. 3924.		-2 0 -3 0		307 293 282 282 290 295	. 1
3.5	912. 4000. 989. 4077. 2065. 4153.	5.5 8.5 5.9	-3.8 -4.0		300 208 320 320	5

Exercise in a west to exact the second



		A						
7 × 10	COL CB	TRACT	ELEN S	DES METE	R8	SOUNDIN	ID 49	03
DATE 06	/28/77	TIME 13:09!	ST ASCE	NT RATE	500 FPM	DATA IN	TERVAL 1	5 SEC.
TIME	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	W8 M/3	WD
0.9	SFC 150 300	2238	25 00 22 86 23 18	-2.14	-0.85	<b>2.</b> 07	3.1 2.8 10.7	300.
2025	412. 500 912. 1912.	2500 2588 3000	23.54	0 31 0 35 0 01	0.68 -0.17 -1.71 -1.39 -4.18	2.76	10.6	302 207 219 224
15 8	1912 2912 3912	74000 5000 6000	11 46 1 41 -5 35	8 58 10 05 6 76	· • 0 · 75	2.18 0.43	4.3	224:
		-10.00		*				
3.2								
DATE 06	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TRACT TIME 13:09	The state of the s	· the first state of	ALL STATES OF THE STATES	DATA IN	and the contract of the contra	
TIME	HEIGHT M (AGL)	HEIGHT (MSL)	U-COMP	V-gg		WND SPEED	WND DI	R
0.50	76: 168:	2088 2164 2256	0.B 3.0	= 0	. 5 0 0	9:8	300 271 298	
2050	321 367 473	2409 2485 2561	10.3		4	10 2	297 305 302 303	
and and	549 626 702 788	2637 2714 2790	2.0		4	11.0	232	40-20-21
5.0	907. 1987. 1063.	2995 3075 3151	0.7	2	8 9	4 8 4 9 1 2	218 236 217	A Section of the second
7.0 7.5 8.0	1139.	3227 3303 3379	1,6		200	2.0	350 307 270	
9 5	1368 1444 1541	3532: 3629:	2.8		7	2 4	209 195	
10.5	1784 1889 1992	3872 3977 4080	4.0 2.8 3.4	2 2 4	8 8	5 9 4	194 232 225 219	
12:5	2101:	4189 4302;	3.6			8.1	<b>£1</b> 8;	
	· ` ` ` '		1 1	3 -	1	4 4		- 56 - 7

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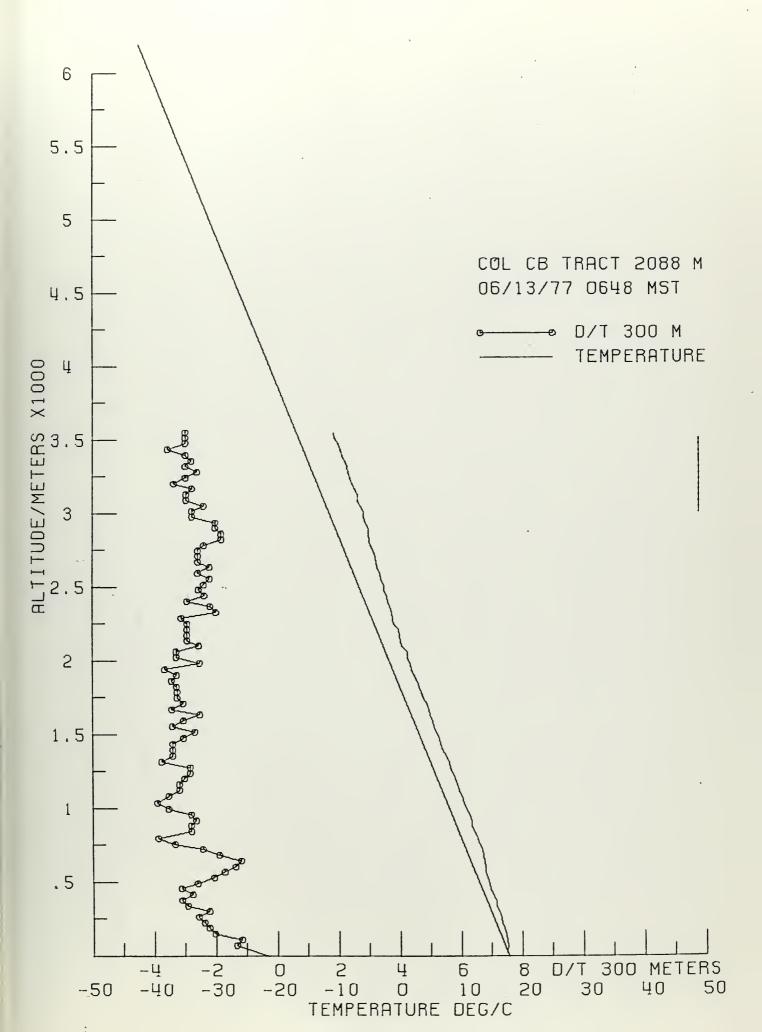
-1	1		272 - 27.		0.00	*		1
to be the second	COL CB	TRACT	ELEV 2	OBB METE	RS	SOUNDIN	G ID 49	01
DATE 06		TIME 07137	ST. ASCE	NT RATE	500 FPM	DATA IN	TERVAL 1	5 8EC.
	UETOUT	4 NETOUR 3	To a man of the	E 1 4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			10 10 10 10 10 10 10 10 10 10 10 10 10 1	A 4 9 9 9 90
TIME	M (AGL)	HEIGHT M (MSL)	DEGC	STD	300M.	LAPSE	M/3	DEG
n a.	SFC	2278	19,58		0.0	1 70	0.0	0,
1.9	300	2238 2388 2500•	19.58 17.46 17.52	0.07	-1.23	2.05	0.9	2,0
23.52	500	2588	16 46 16 02 13 74 6 71	0.46	1 95	0.98 0.97 0.41 1.27	0.2	336 242 254
12.3	500 912 1912 3912	3000 4000 5000	6.71	-1 04 -0 46 -2 27 -7 04 -7 80 -6 72	-1.95 -2.51 -1.66	1.27	A Company of the Comp	Lawrence Co. Service Co.
25.3	3912.	6000:	-1 08 -7 80	-6.72	-2,51	8:41		
The gard				100				
. *	COL CB	TRACT	ELEV 2	DES METE	RS	SOUNDIA	G ID 49	701
DATE 06	1 77 1	TIME 07:37	AND THE PROPERTY OF MANY CASE	NT RATE	500 FPM	DATA IN	ITERVAL !	S SEC.
TIME	HETCHT	HEIGHT	U-COMP	, V=r(	1MD	WND SPEED	וח מאש" ו	<b>P</b> "
MIN	HEIGHT M (AGL)	M"(MSL)	M/8		8	M/S	DEG	
0.0	76:	2088	0.0	* # # 12 × 1	2.8	1:0	9	
1.0	168	2256	0.5		5	1.0	342	
2.5	320	2408	0.5	/ · · · · · · · · · · · · · · · · · · ·	0	0.5	334	
3.0	473	2561 2637	0.0	, , } <b>⊕ (</b>	12	0.4	347 55	
4.5	701:	2713:	-0.1	3		0.4	12	
5.5	854.	2865	2.1		.5	2.2	256	
6.5	1006	3018	3.1/		0	3.2	252	al _
7.5	1082	3246	3.8	1112	3	3,8	266	
089	1311	3366 3475 3551	7:6	No Notes	8	7 0	2059	
9.5			7.0 8.8				259	
10.5	1626	2634.	7.0			- 6	240	
11.0	1626.	3714,	9.0		) . i	9.0	264	
8 5 9 5 10 0 10 5 11 0	1704.	3714 3792 3872	7.0 8.8 9.0 9.0 8.2 7.4		1	9.0 9.0 8.3 7.7	266 269 264 254	
11.5	1704.	3632 3714 3792 3872 3948	9.0 9.0 8.2 7.4 7.5		) • 1   • 8   • 1	9.0 8.3 7.7	269 264 254 249	

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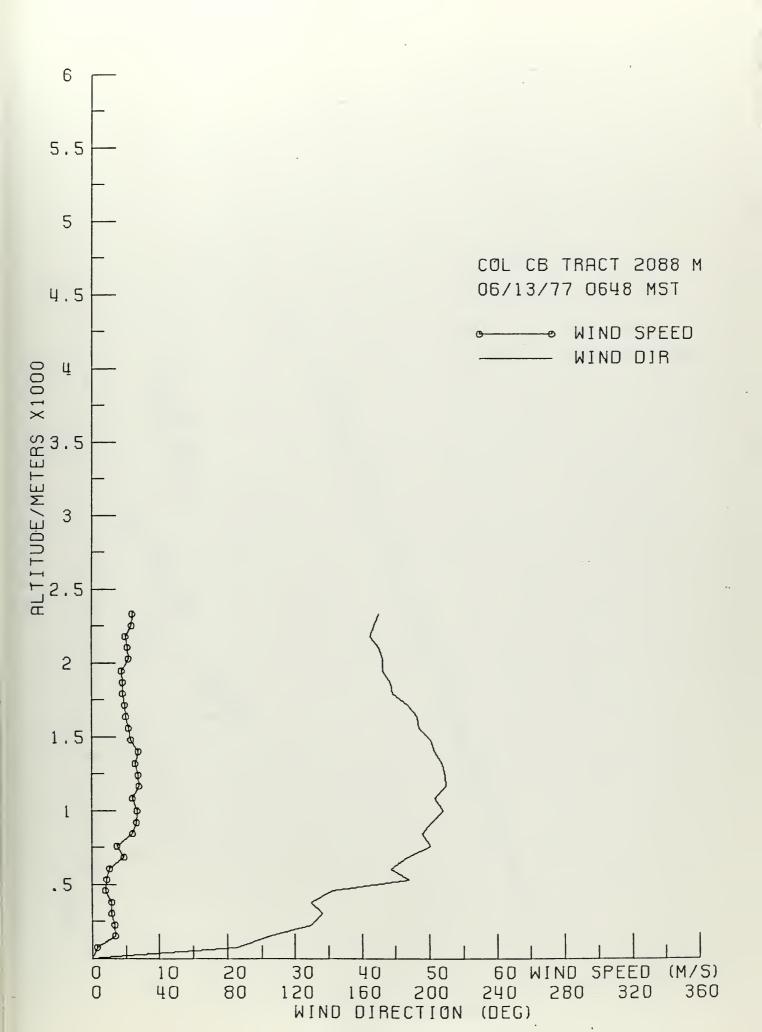


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f C all all		The state of the s	and the first than th	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G ID 4899 TERVAL 15 SEC.
HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T 300	T D/T	WS WD DEG
		23.71 20.08 18.74	-1.34 -1.	0 44 75 1:18	2:1 320 4:0 321 3:9 317
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1136. 1268. 1418.	2917 2993 3097 30226 3506 3666 37669 4076 41294 4454 4598	7 8 8 1 1 1 1 1 1 2 0 6 4 4 5 1 8 4 5 6 5 6 0 6 5	-0.3 -0.4 -0.6 -0.7 -0.6 -1.1 -0.1 -0.3 -1.8	100 THE WOOM TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	24 24 20 20 20 20 20 20 20 20 20 20 20 20 20
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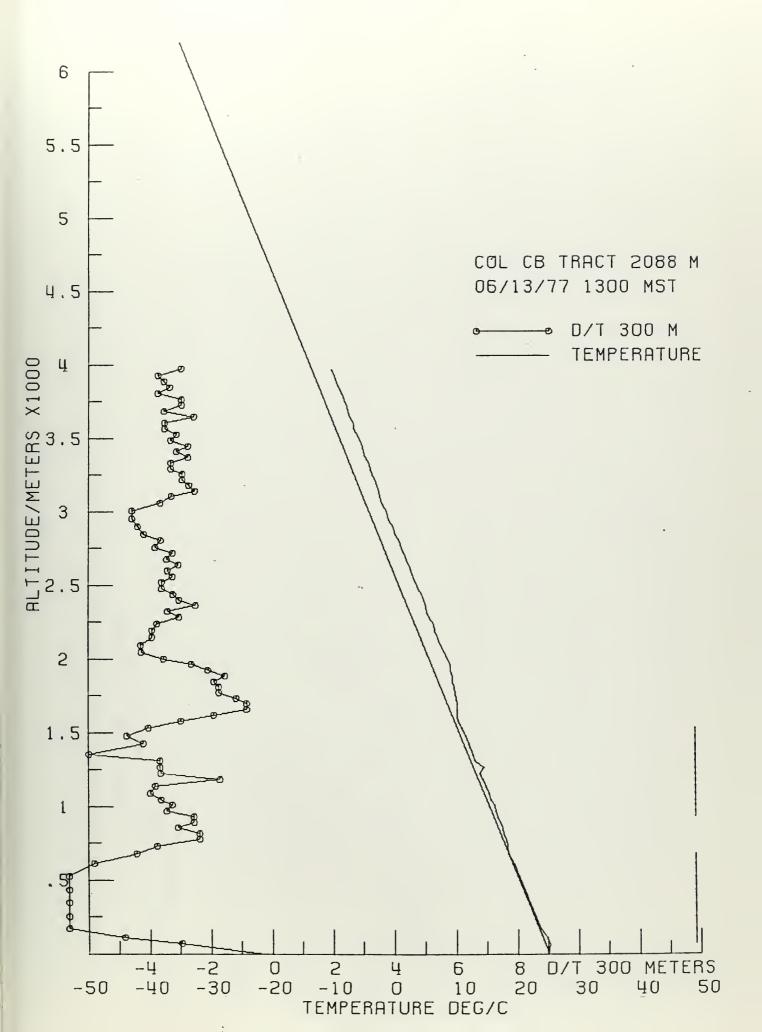


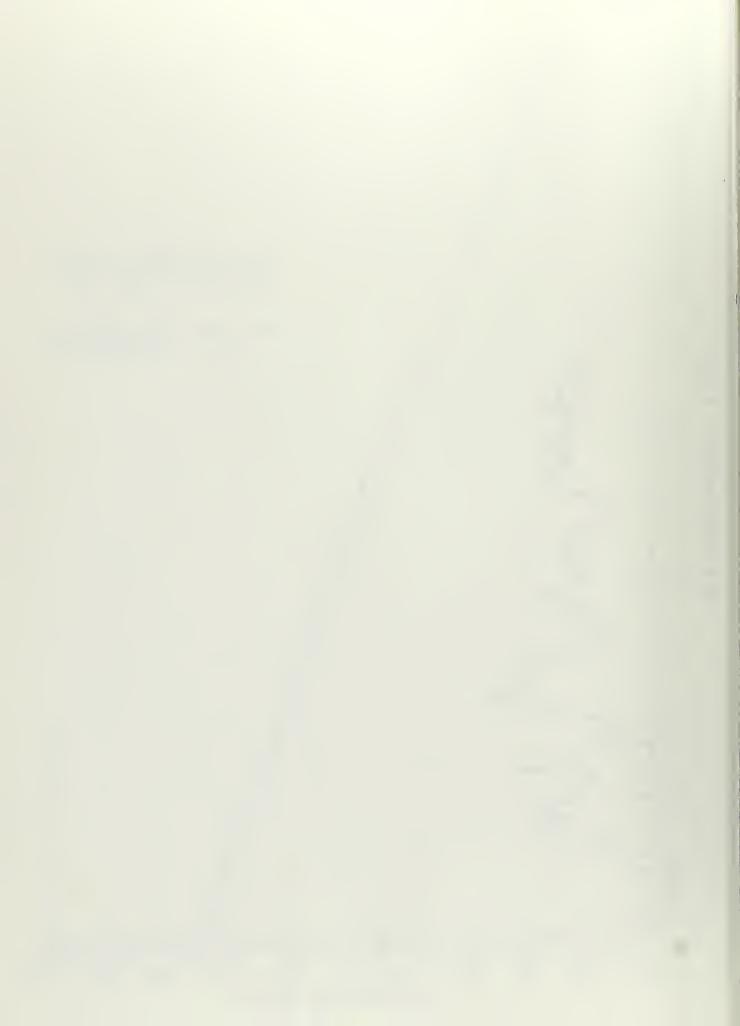


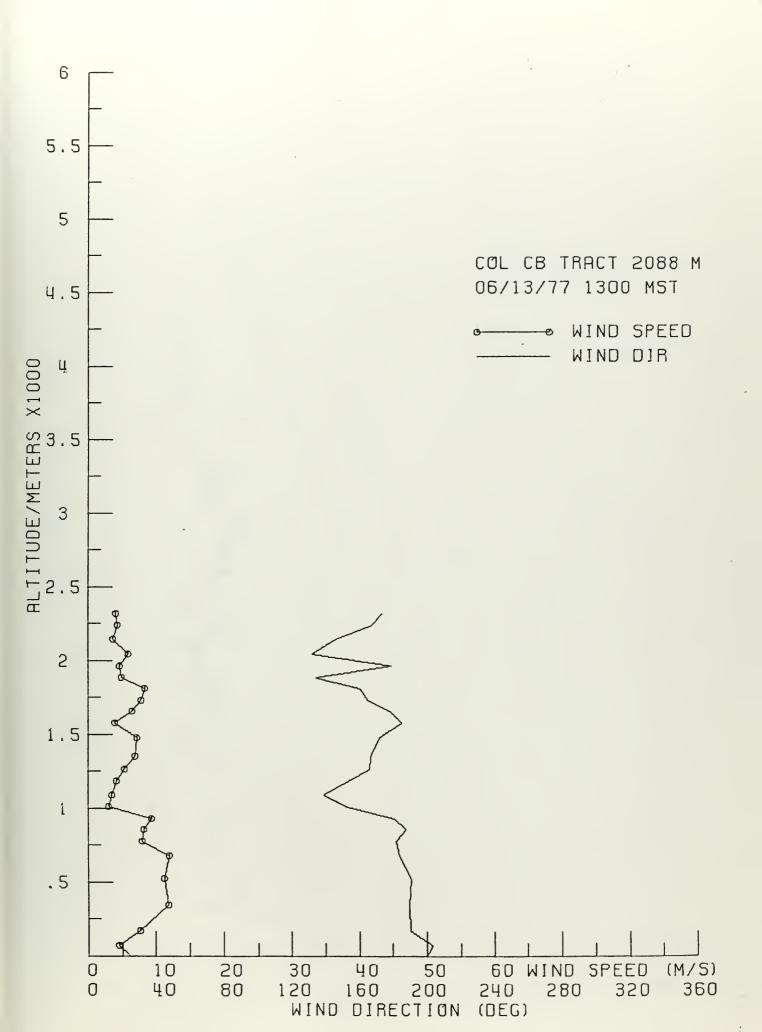




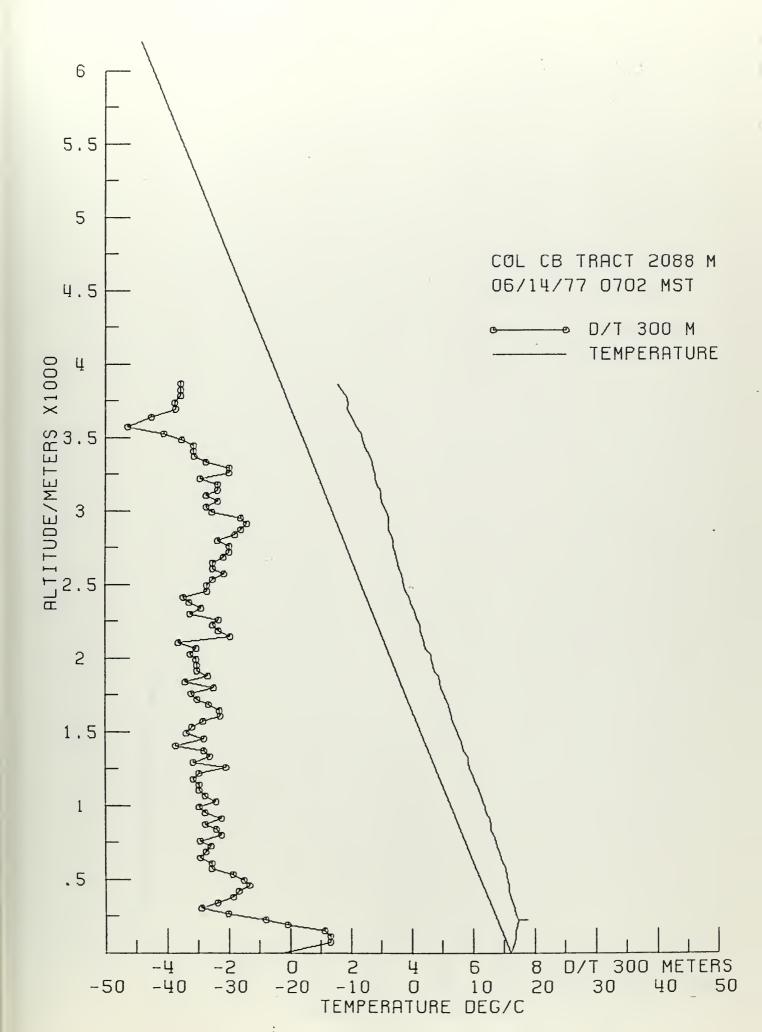




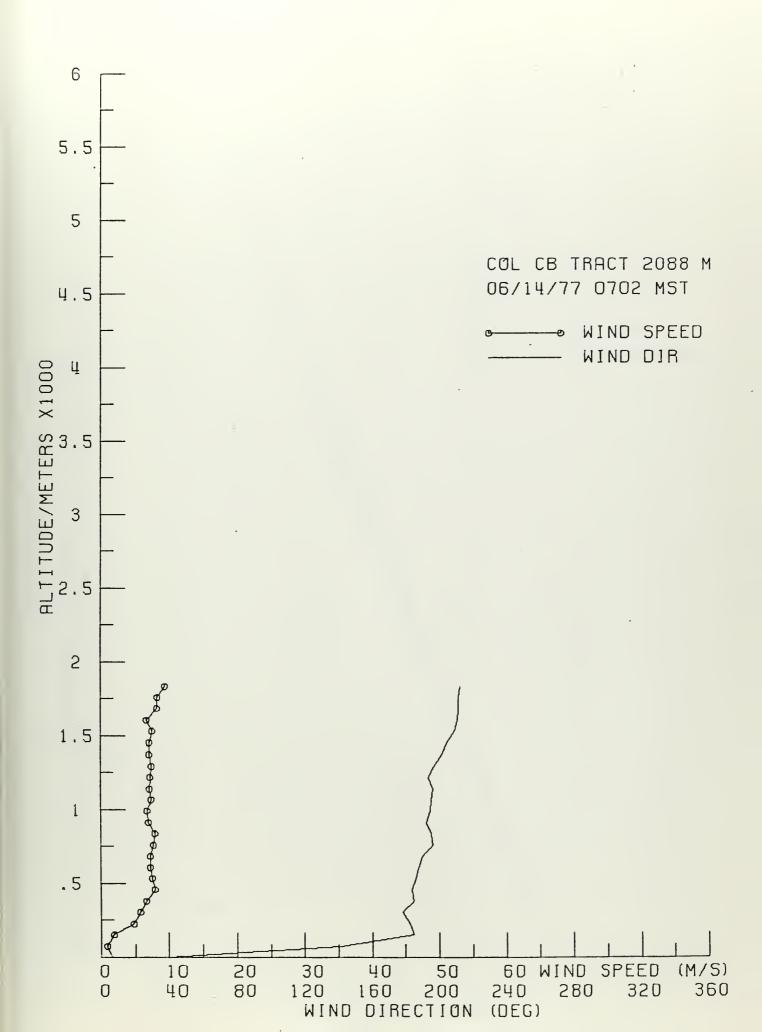




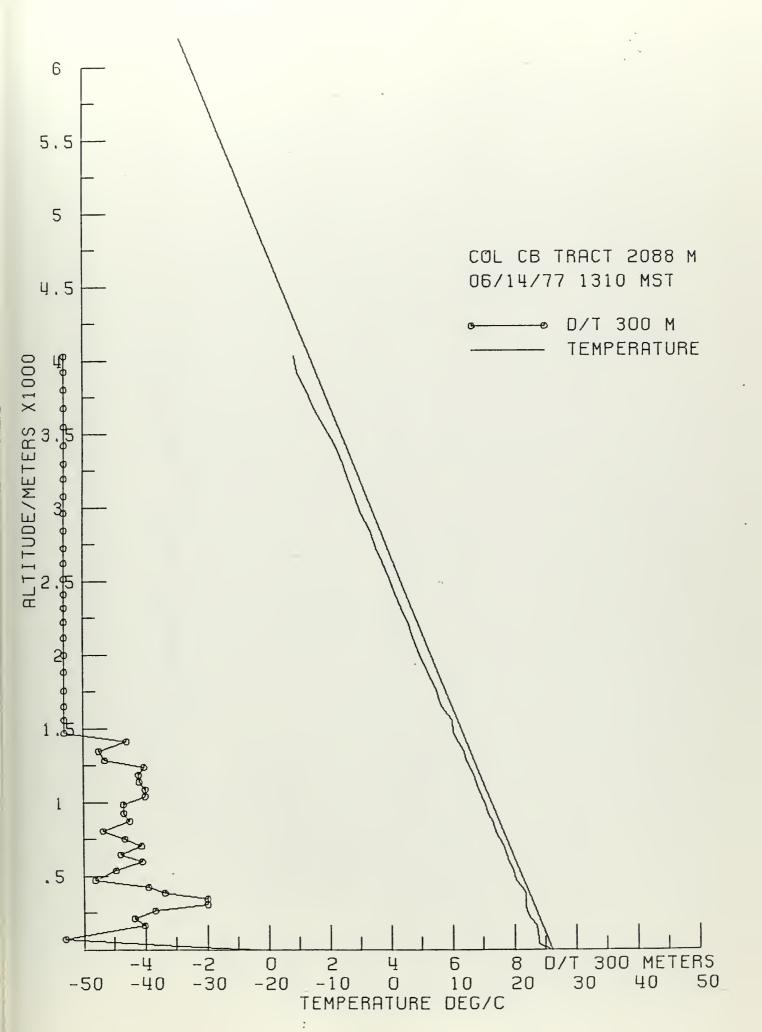




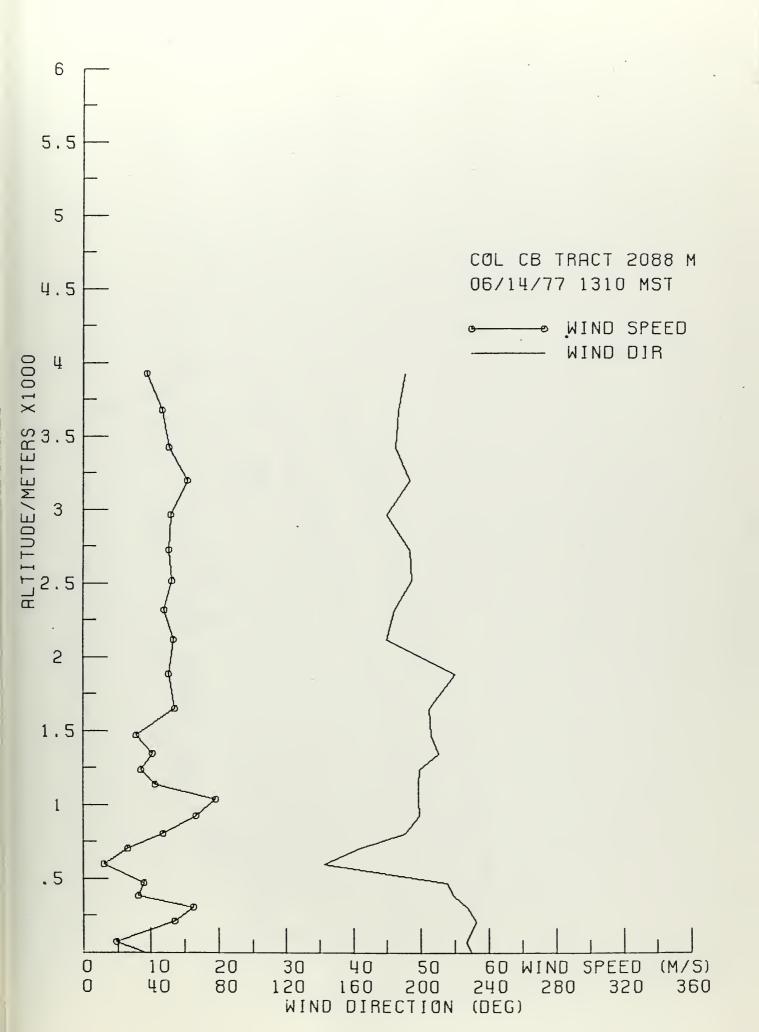




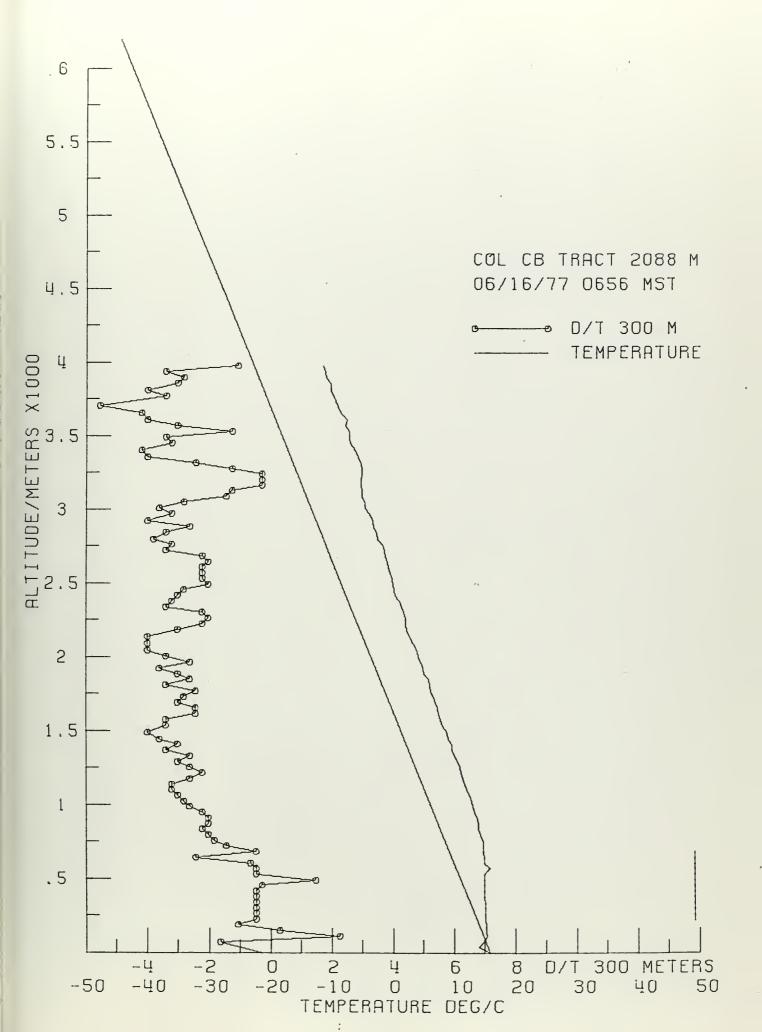




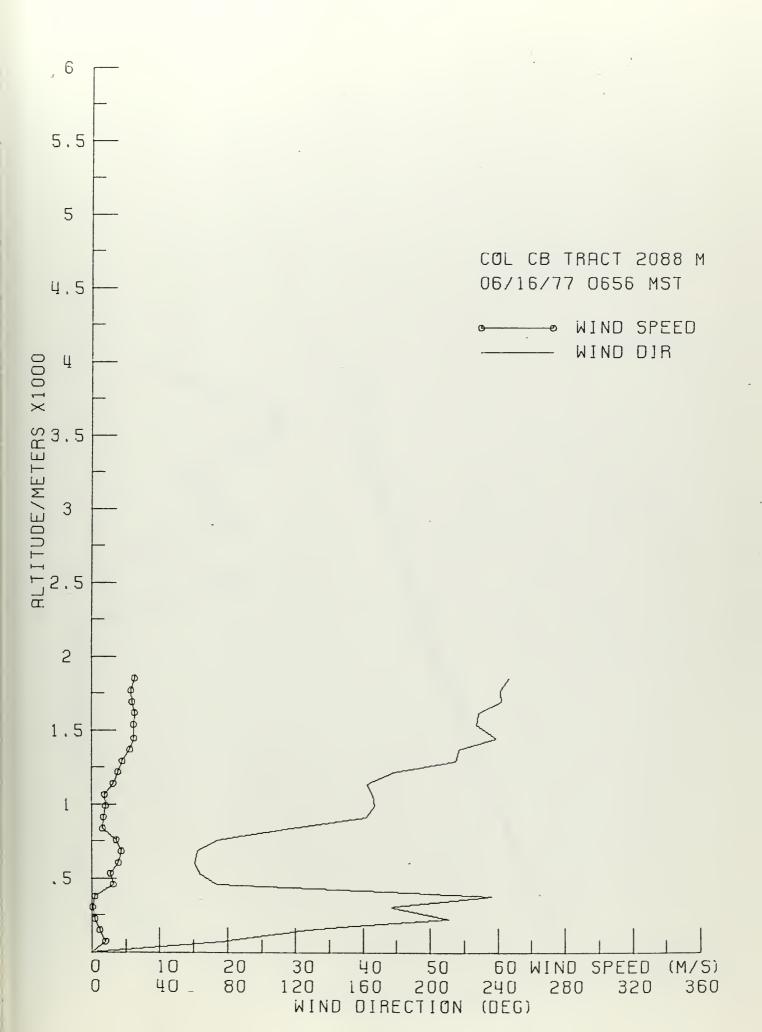




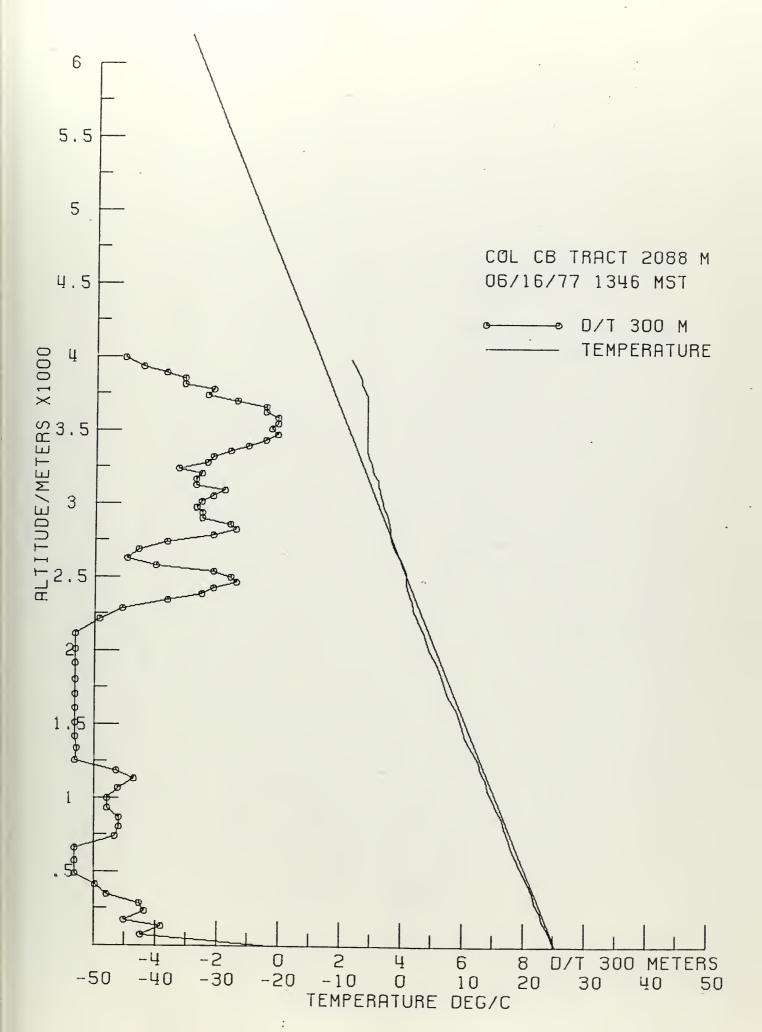


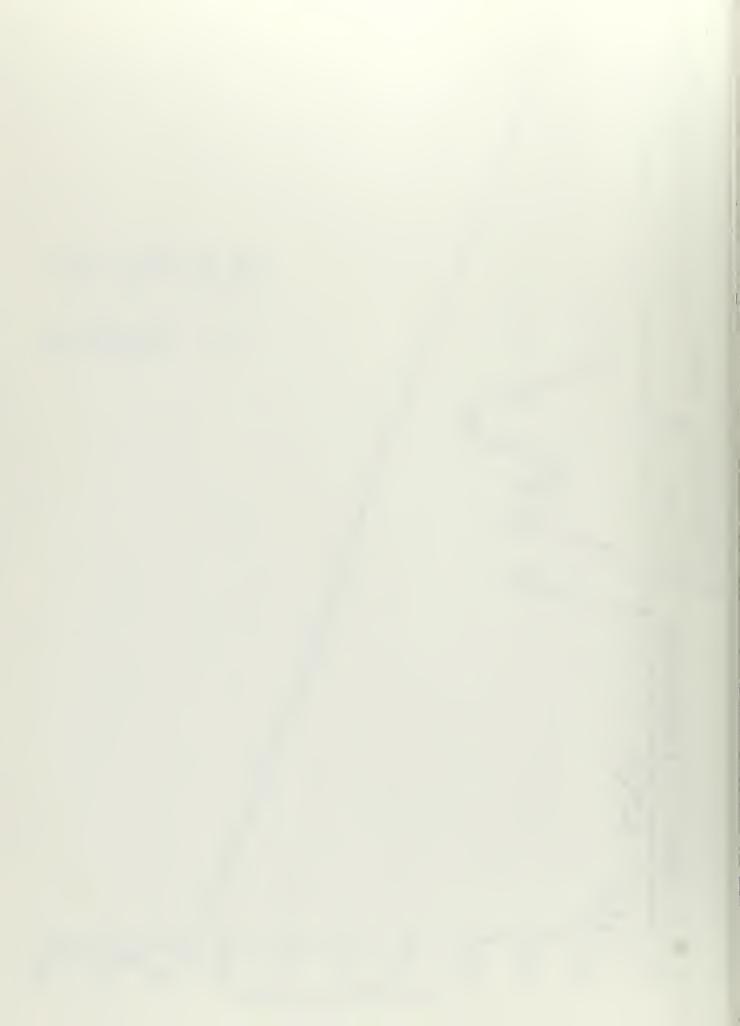


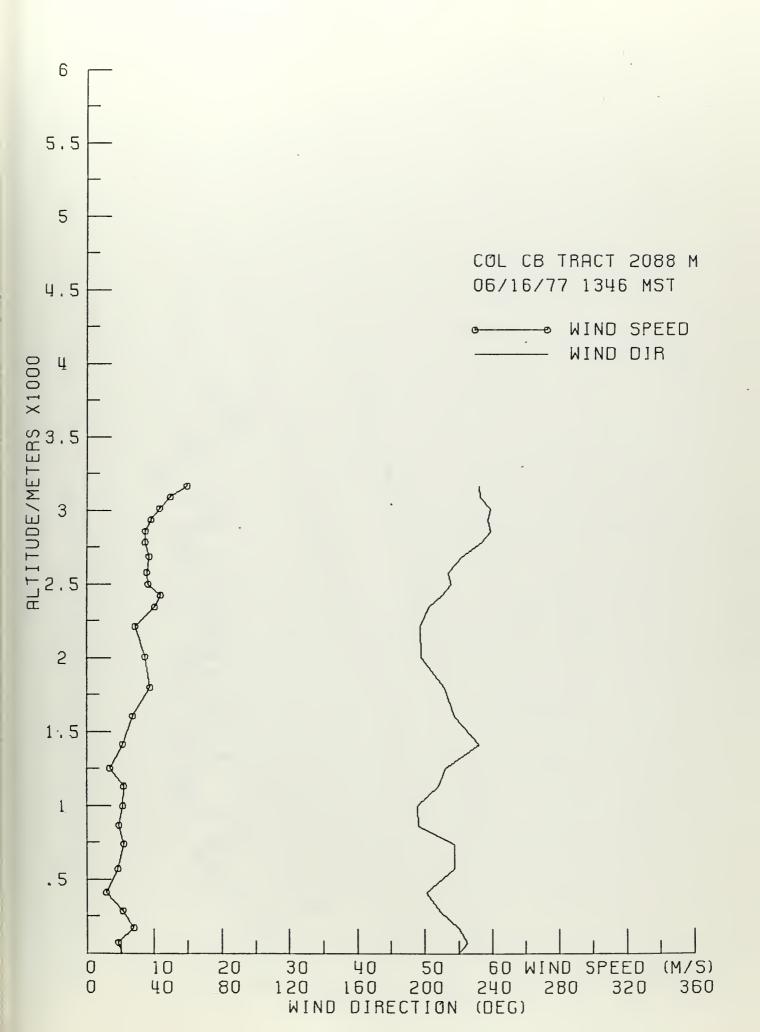




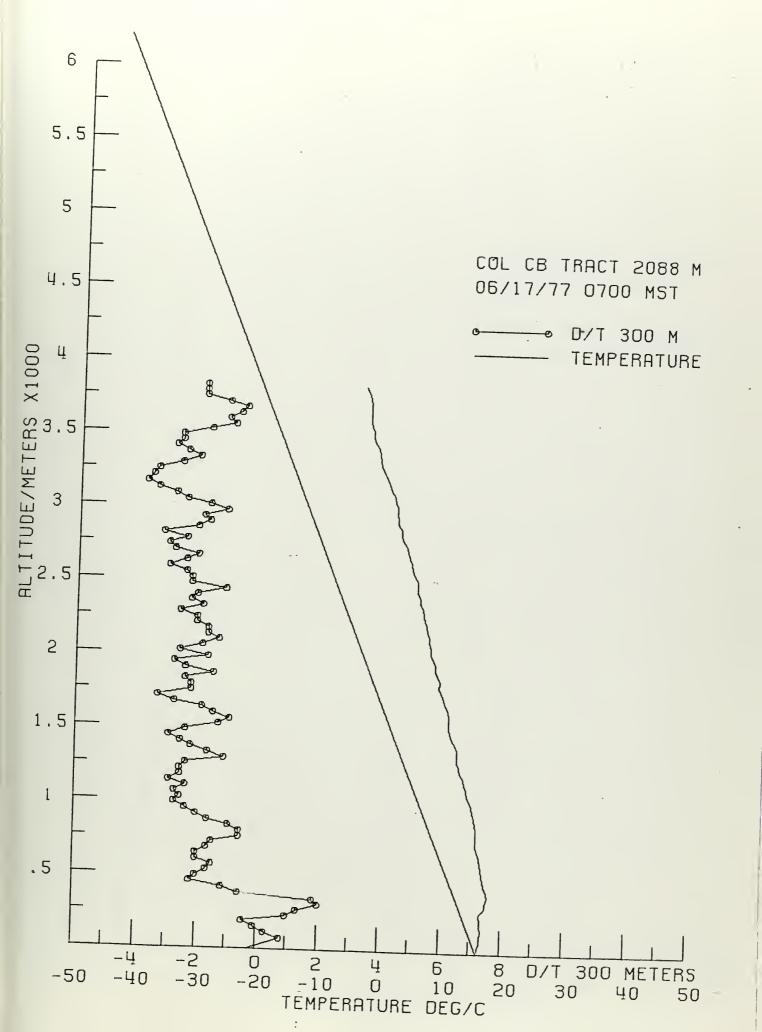




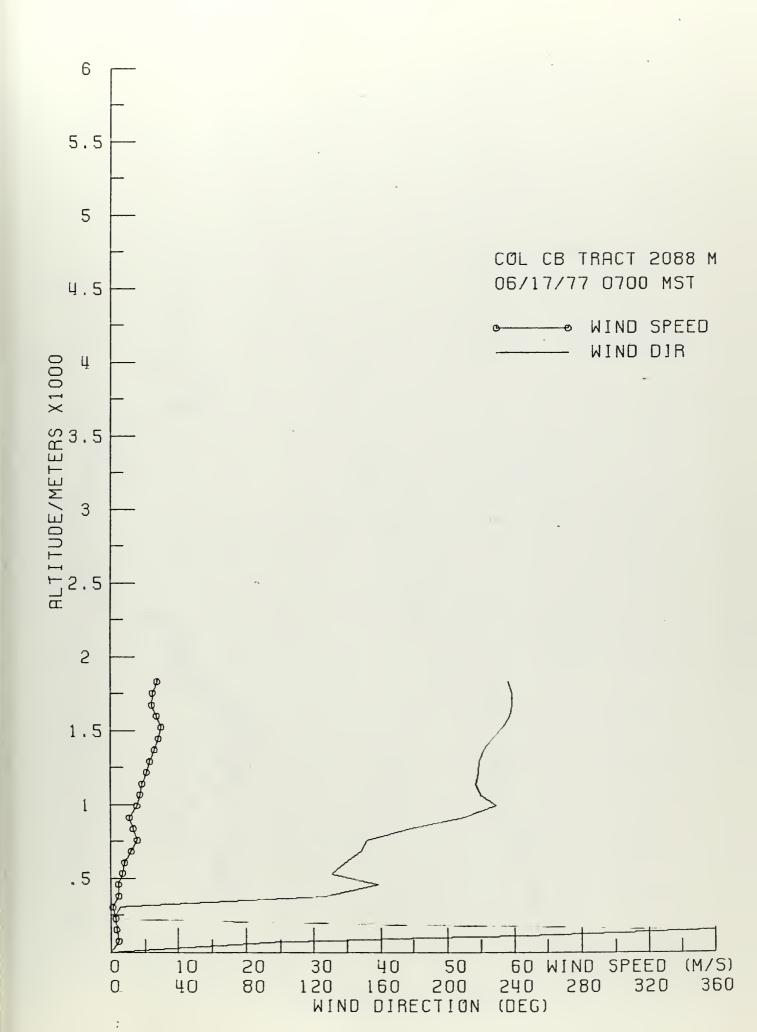




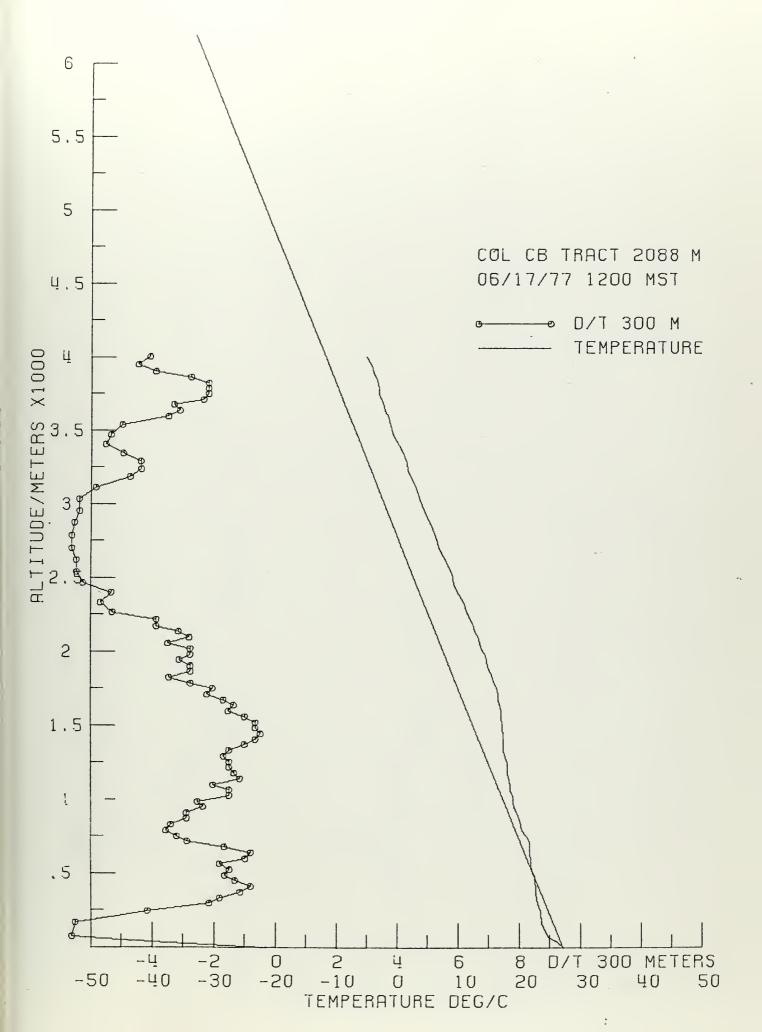




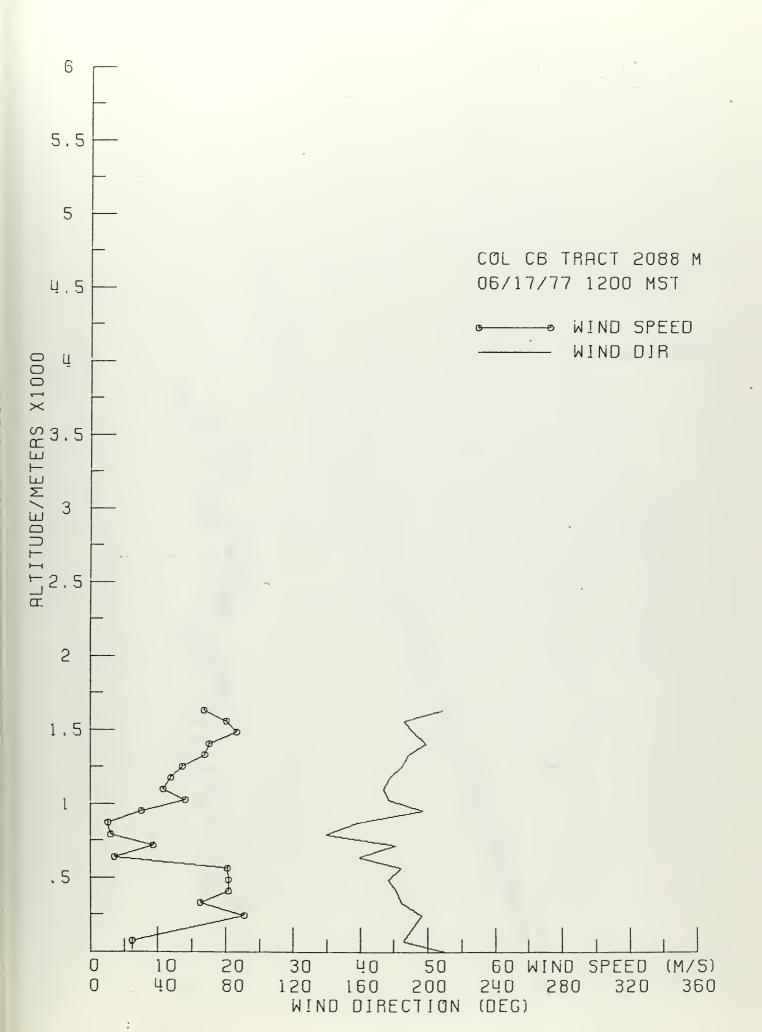




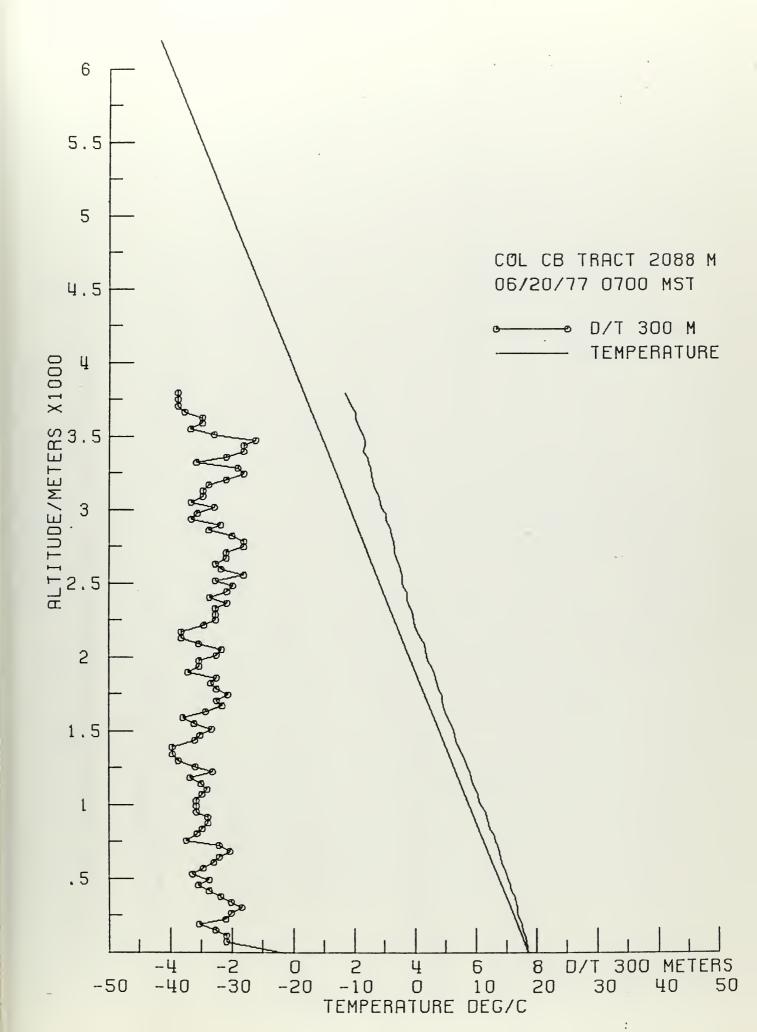




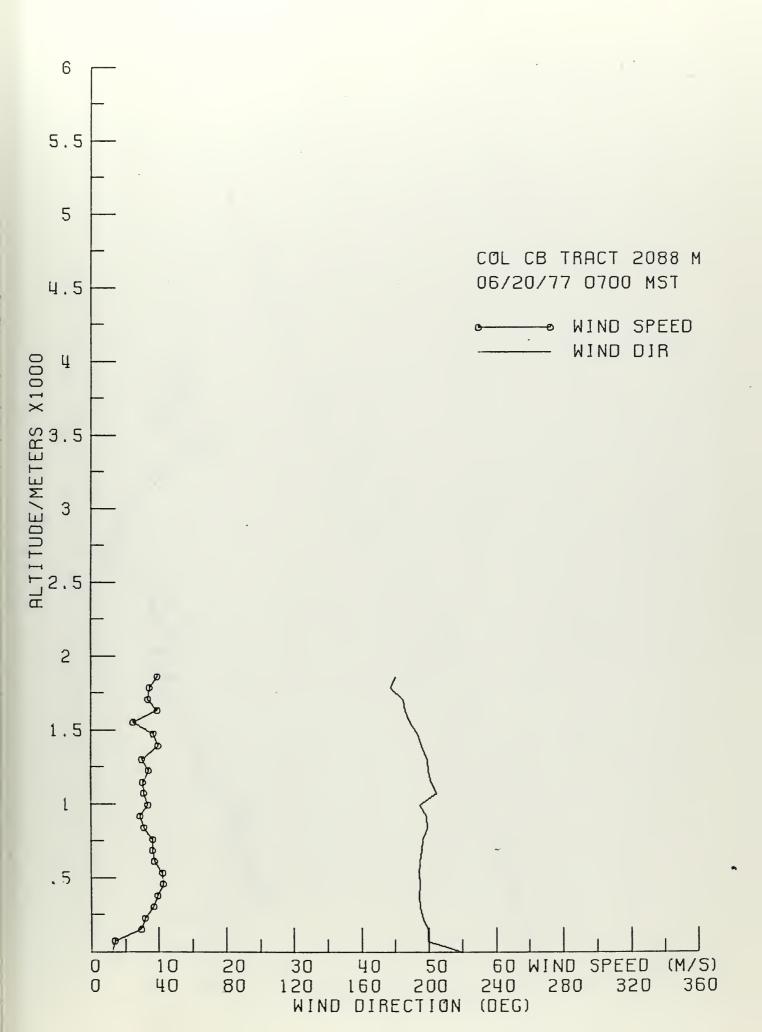




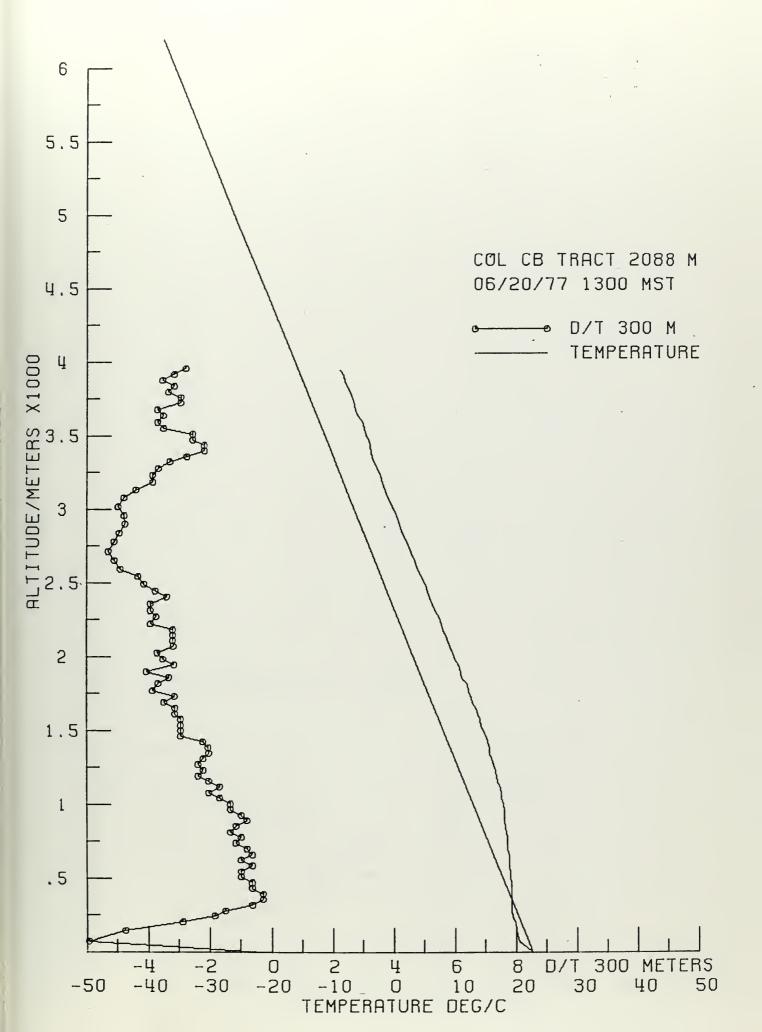




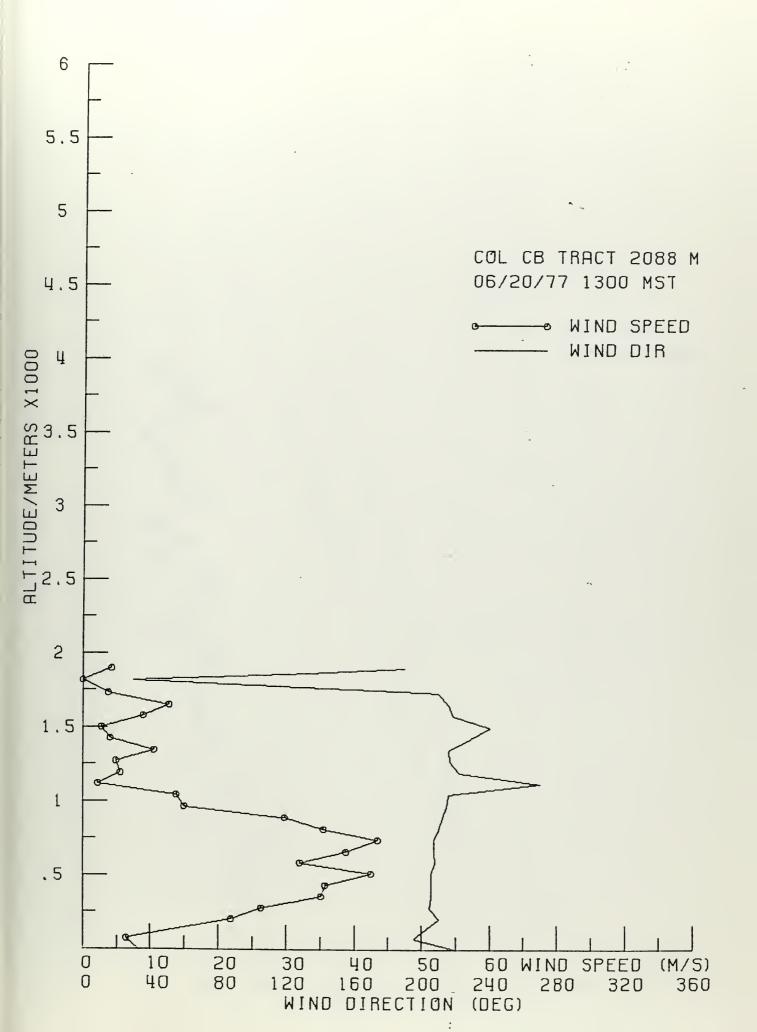




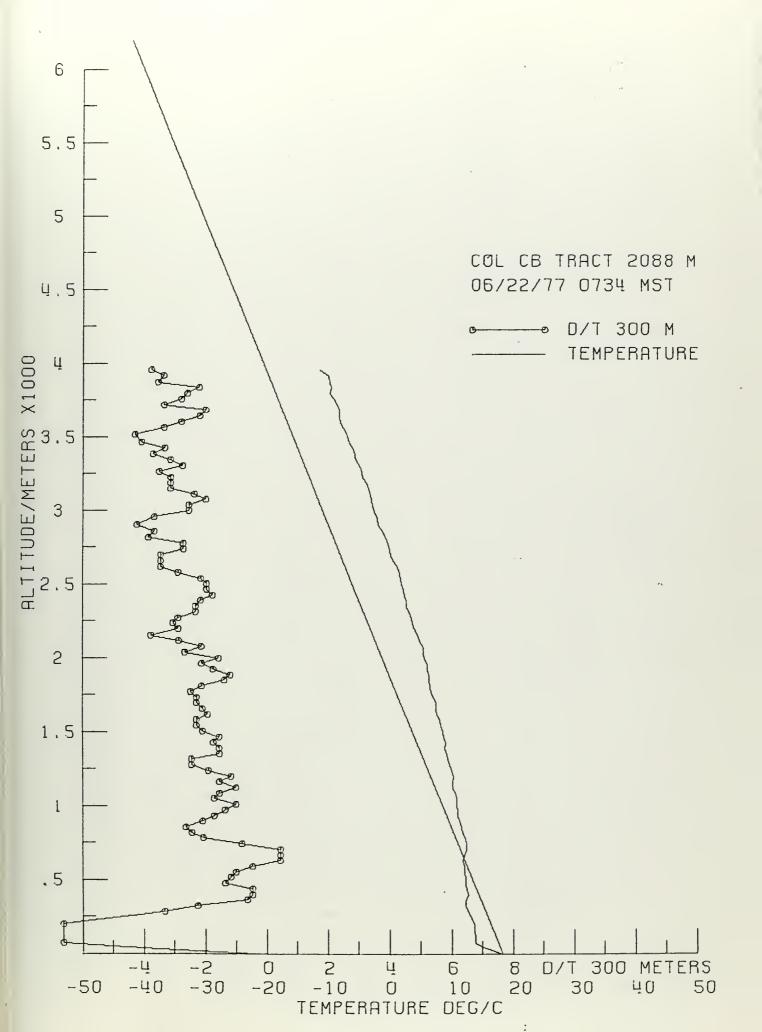




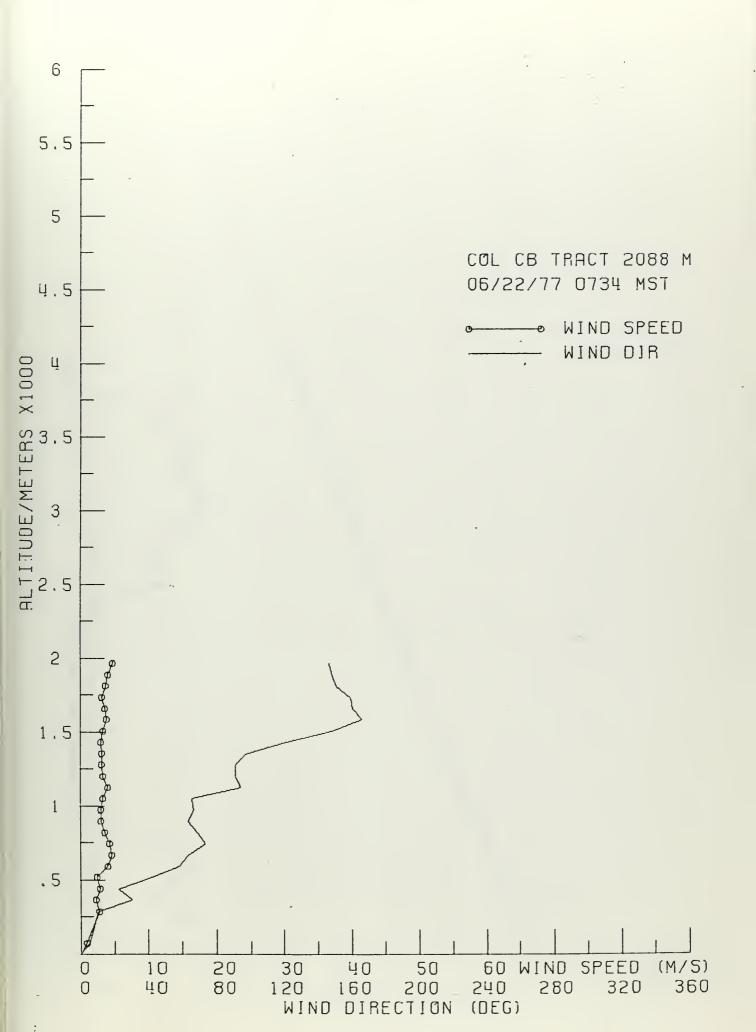




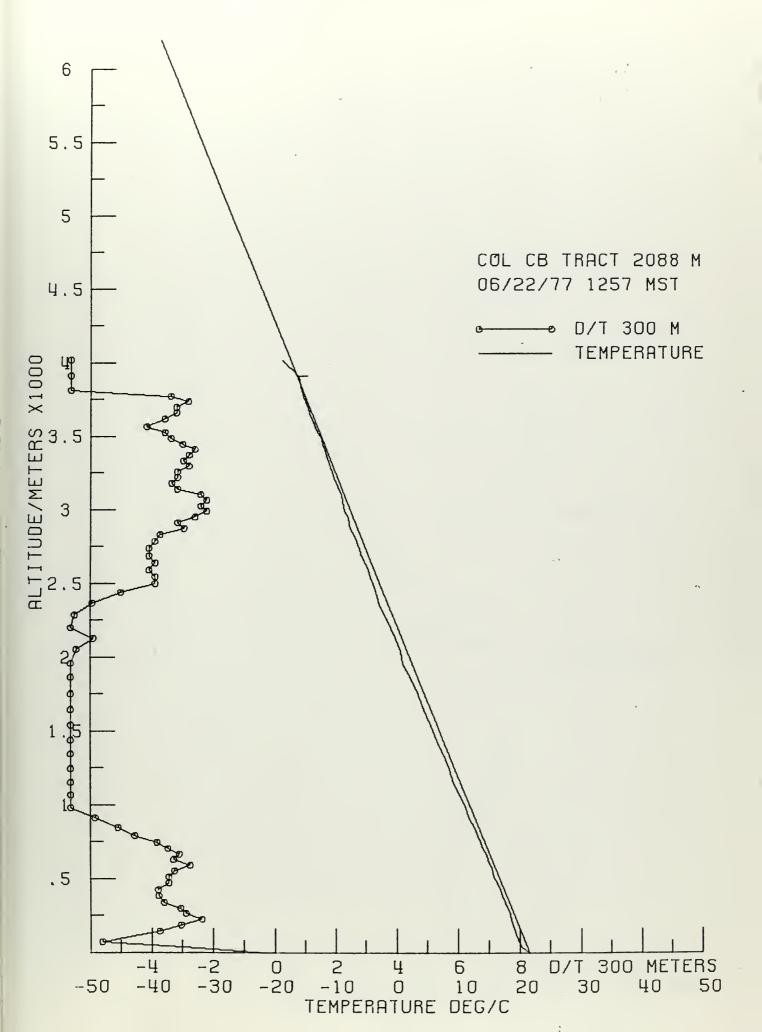




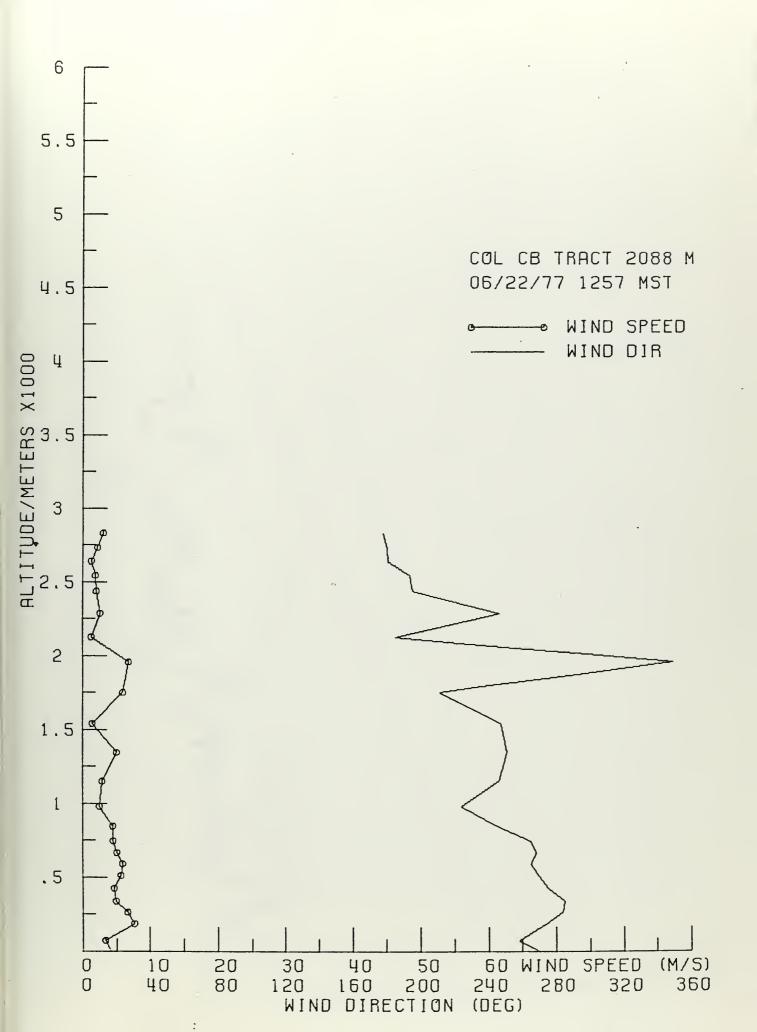




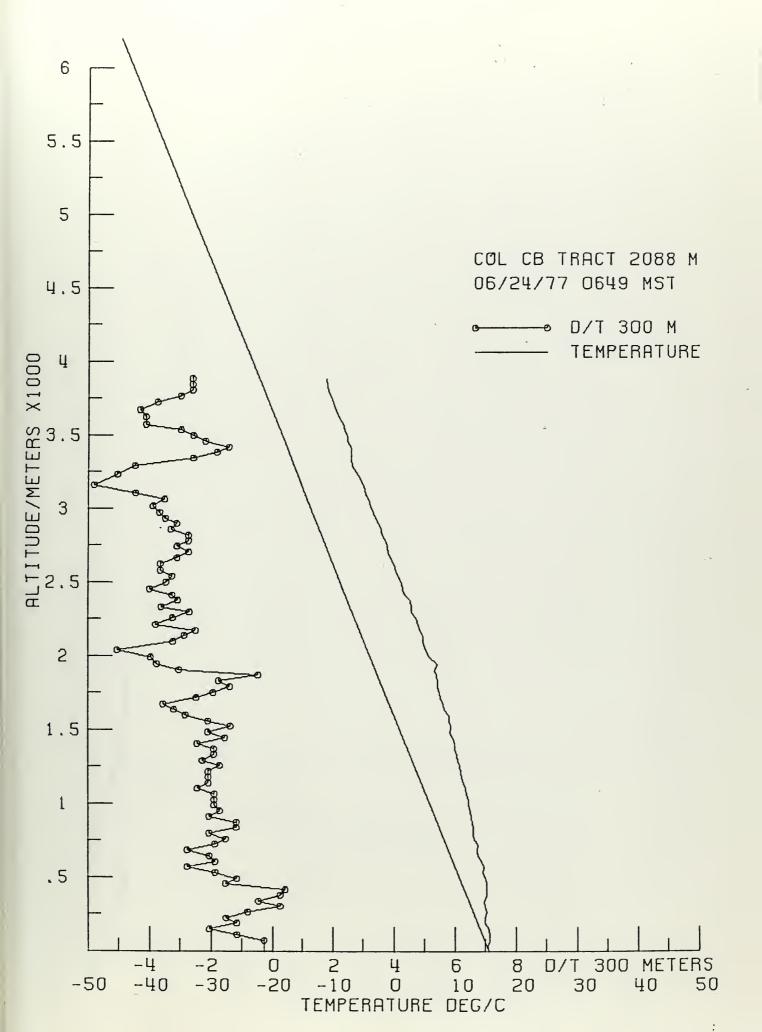




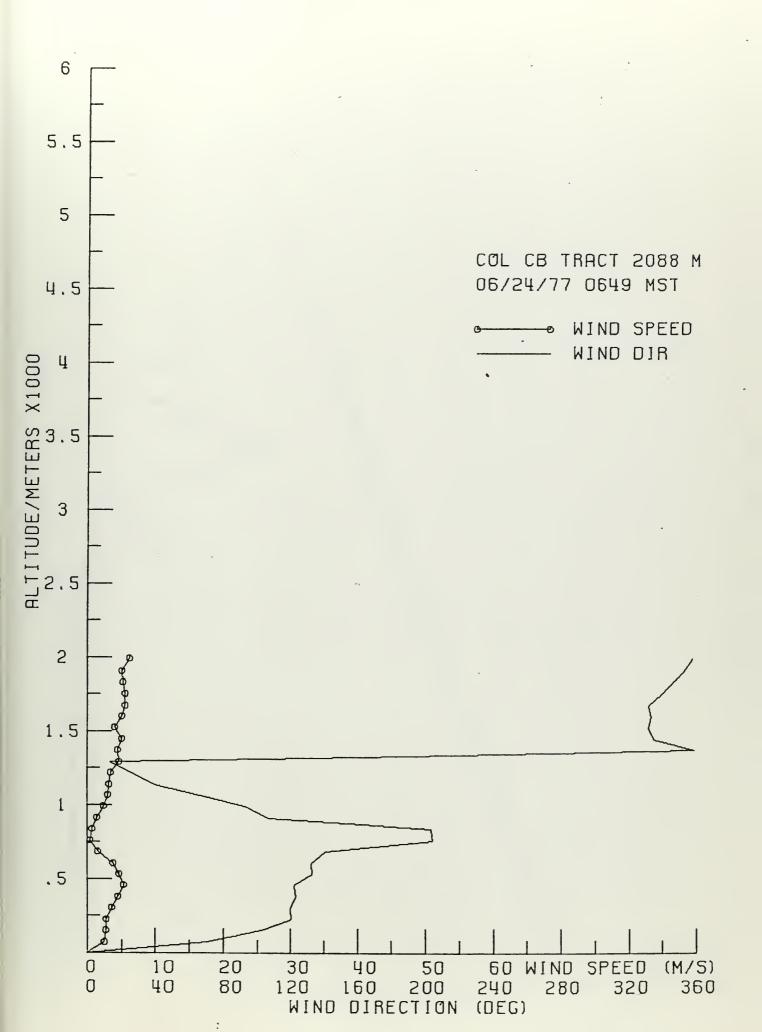




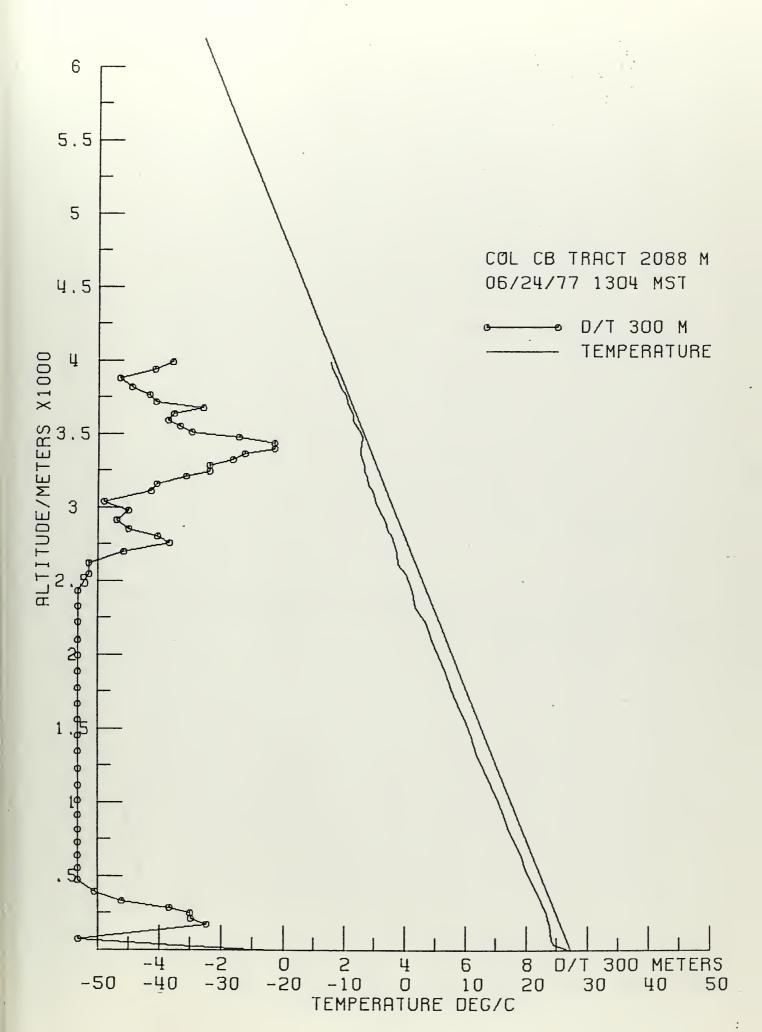




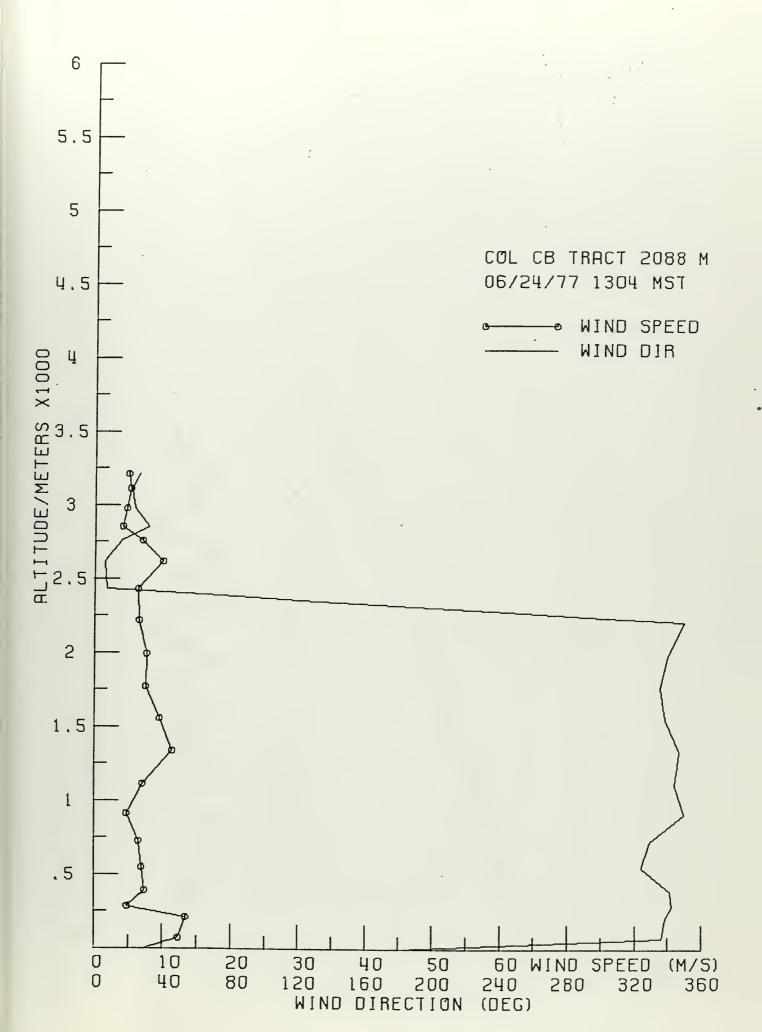




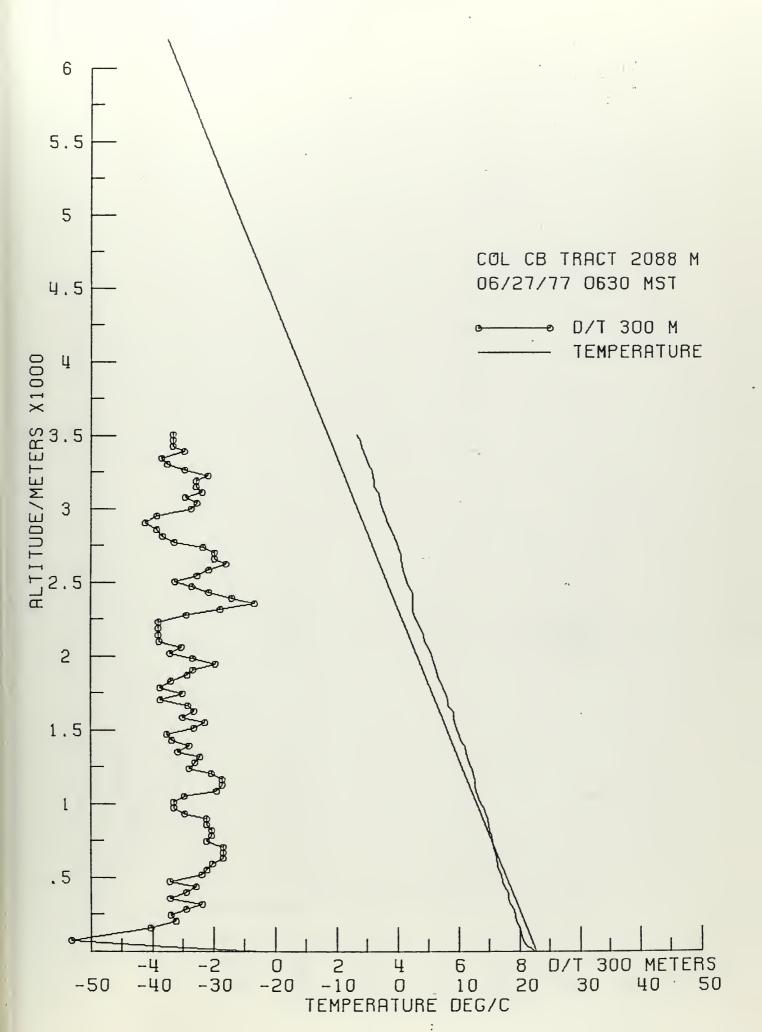




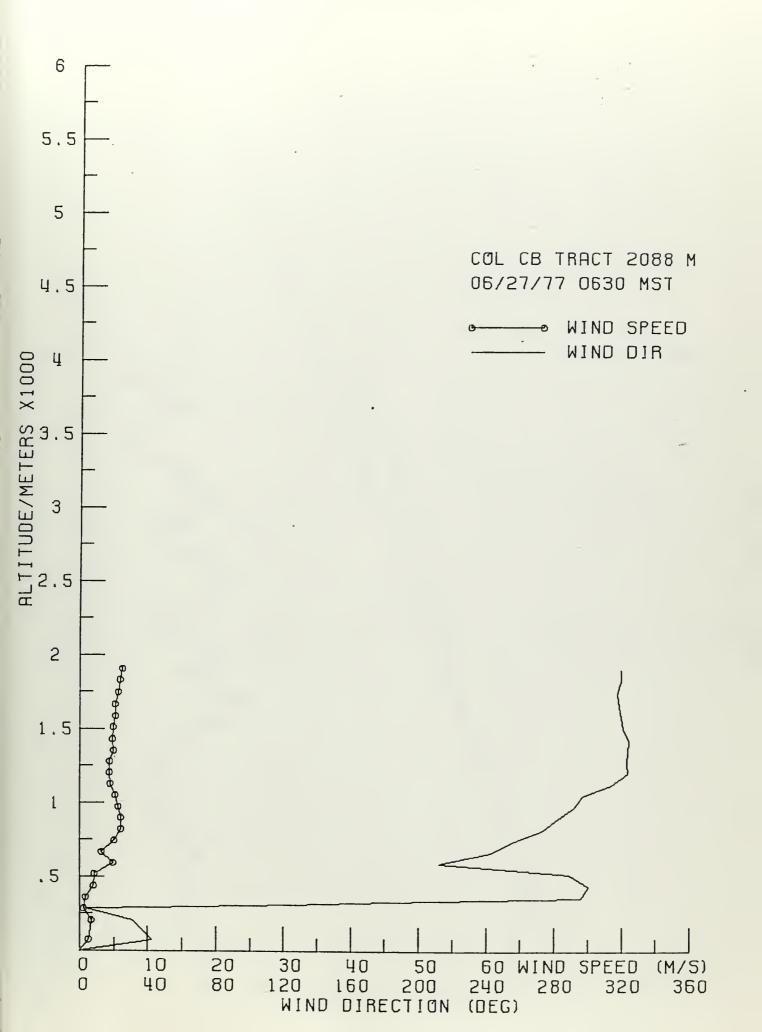




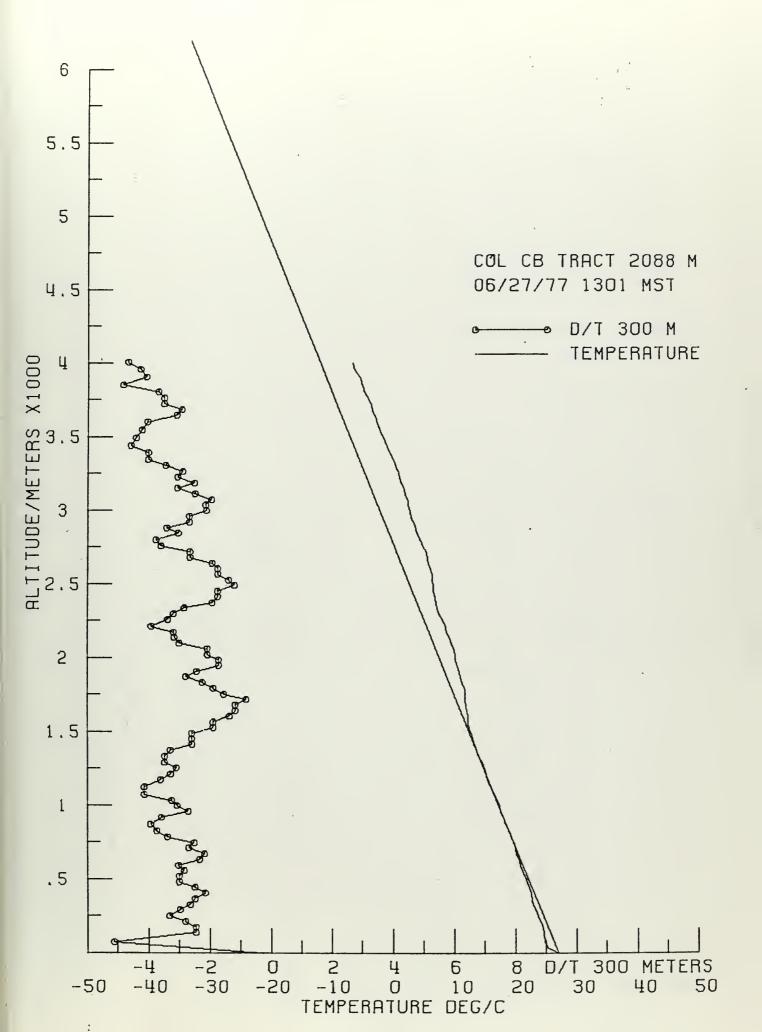




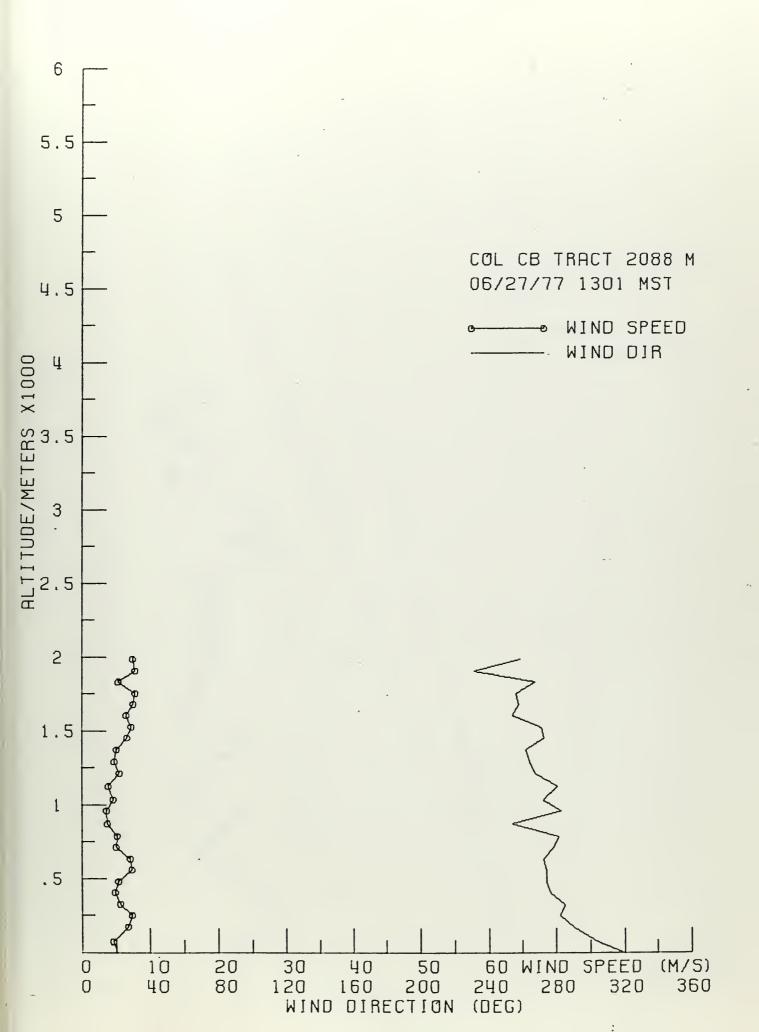




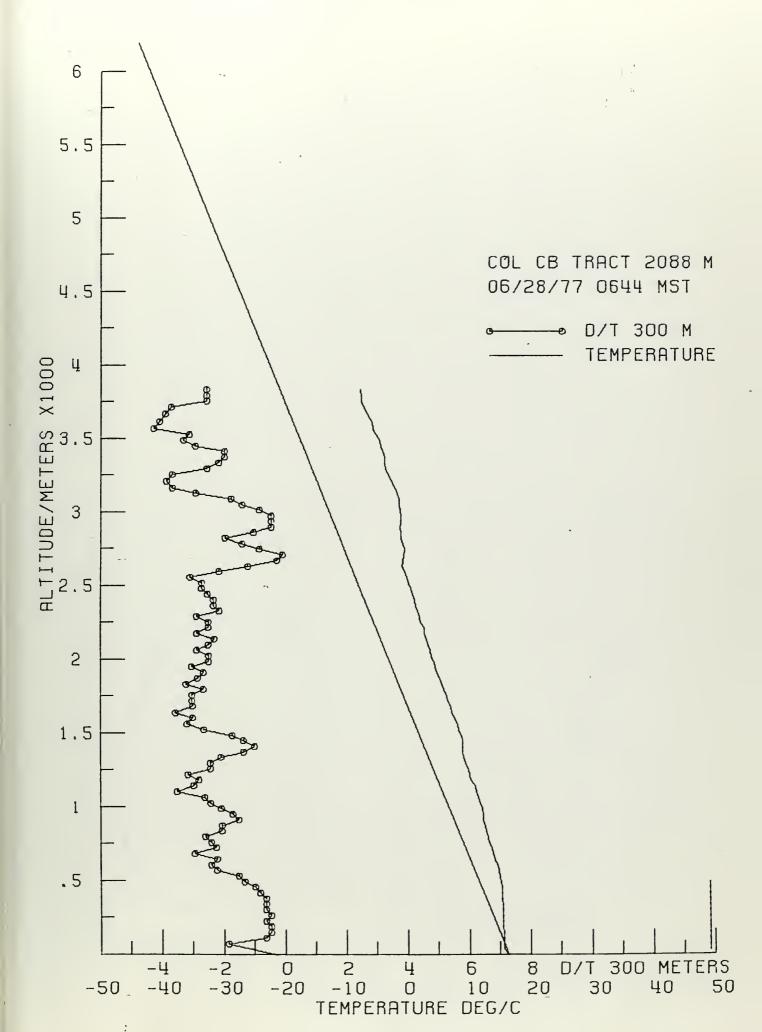




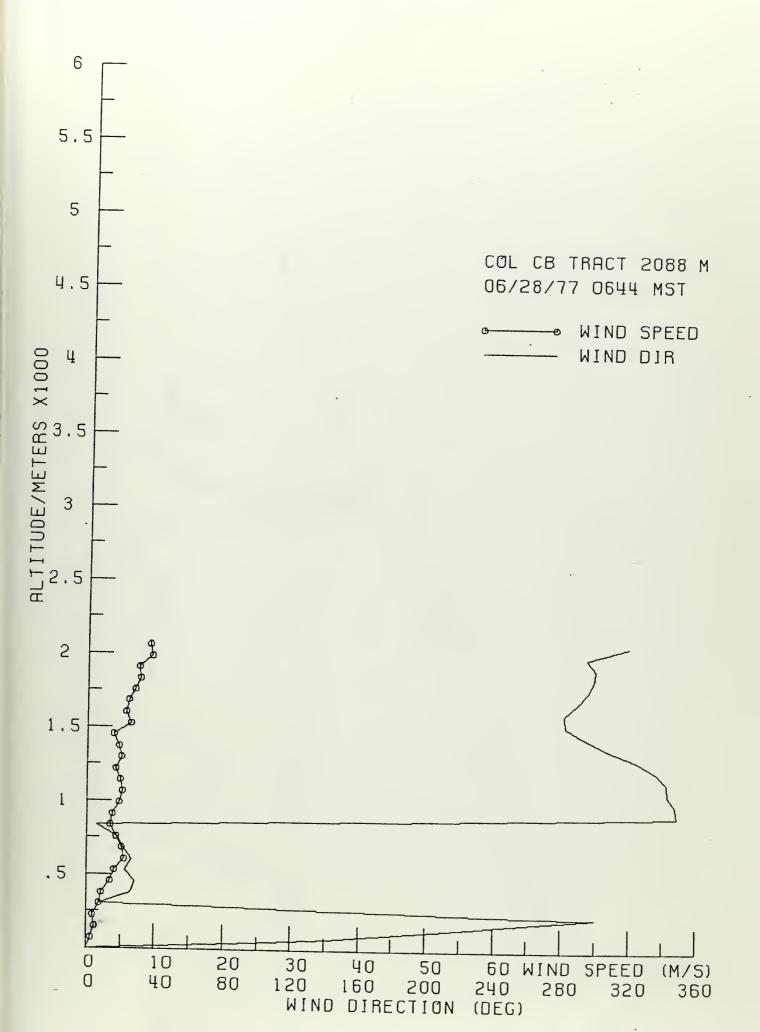




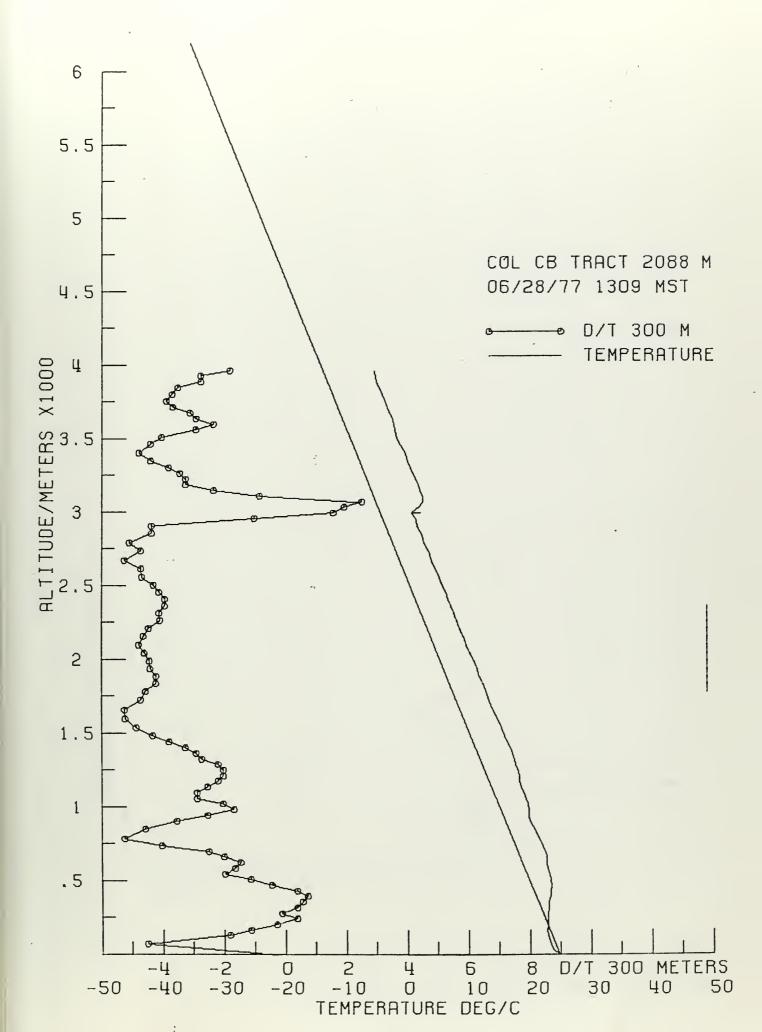




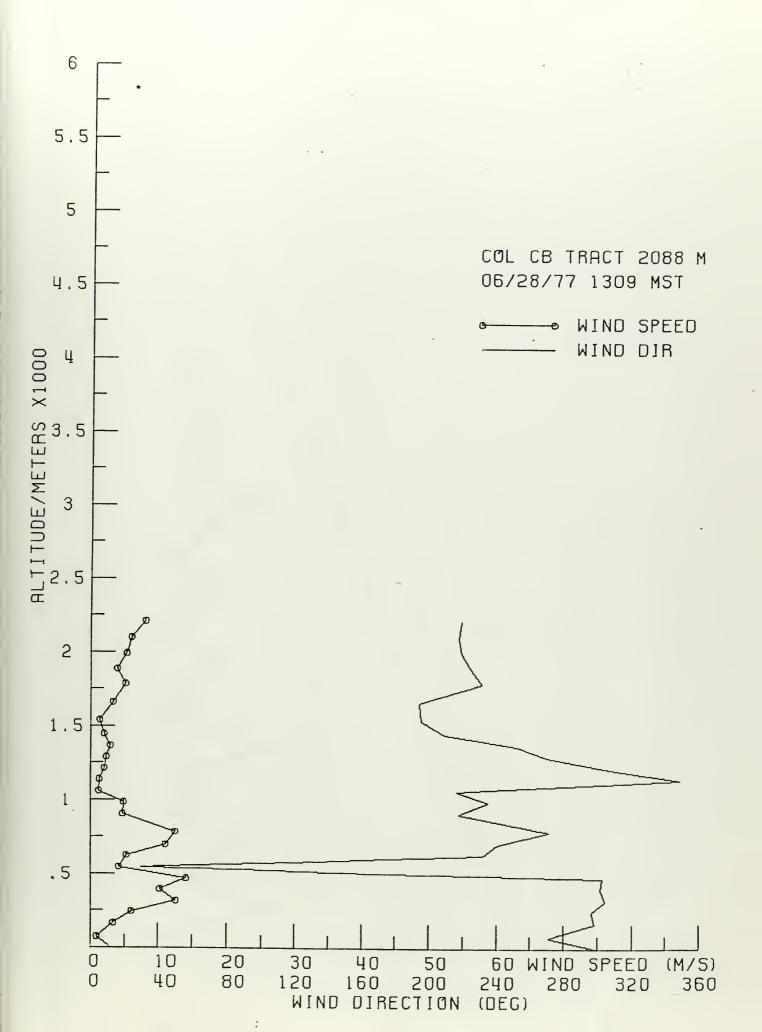




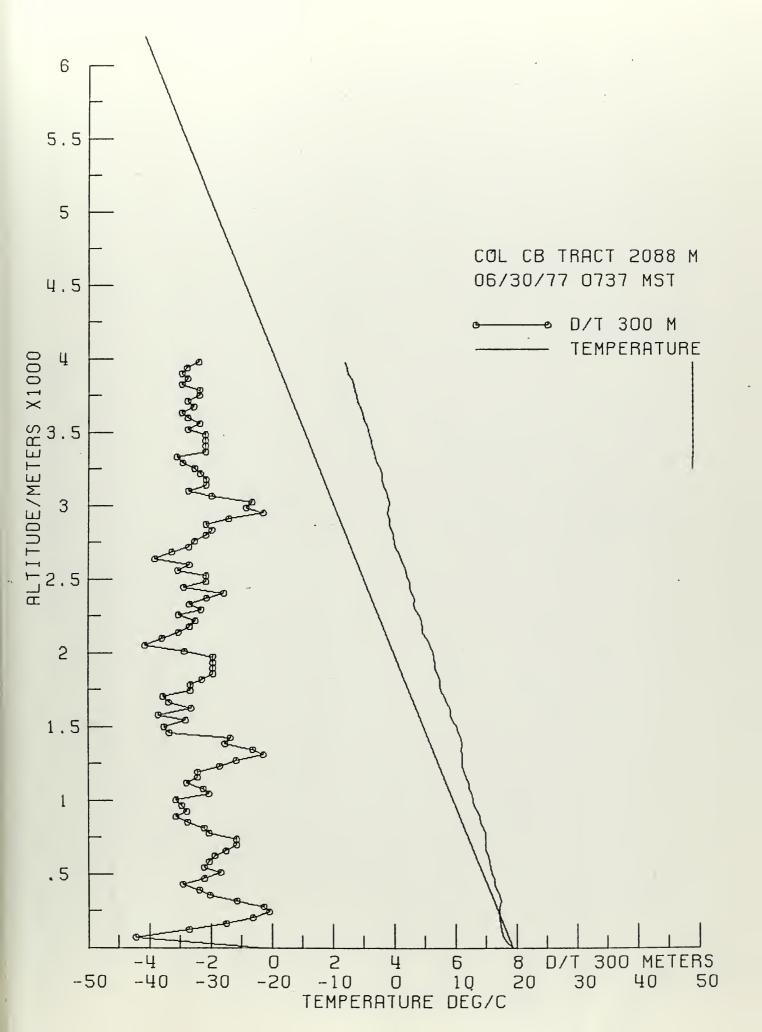




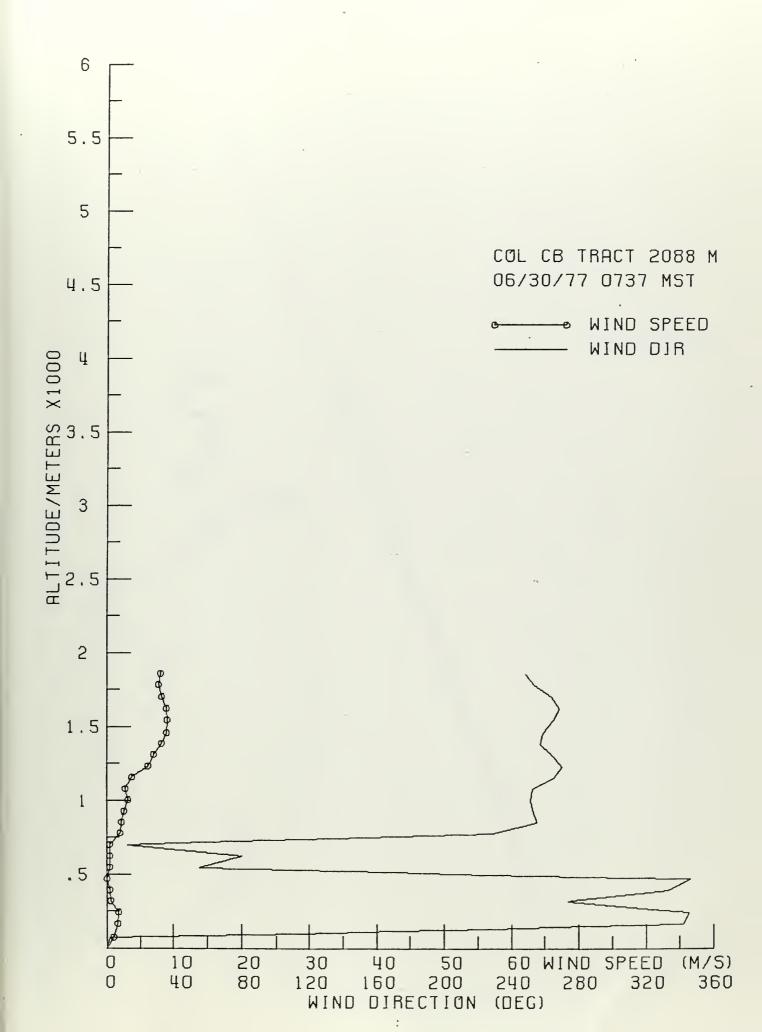




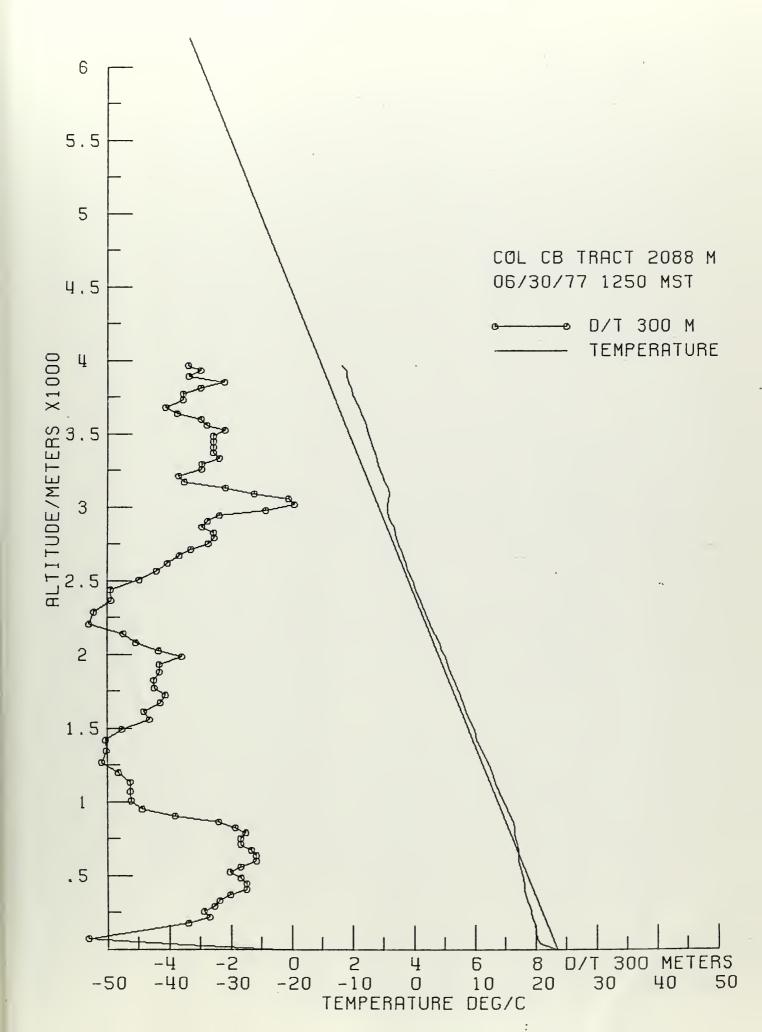


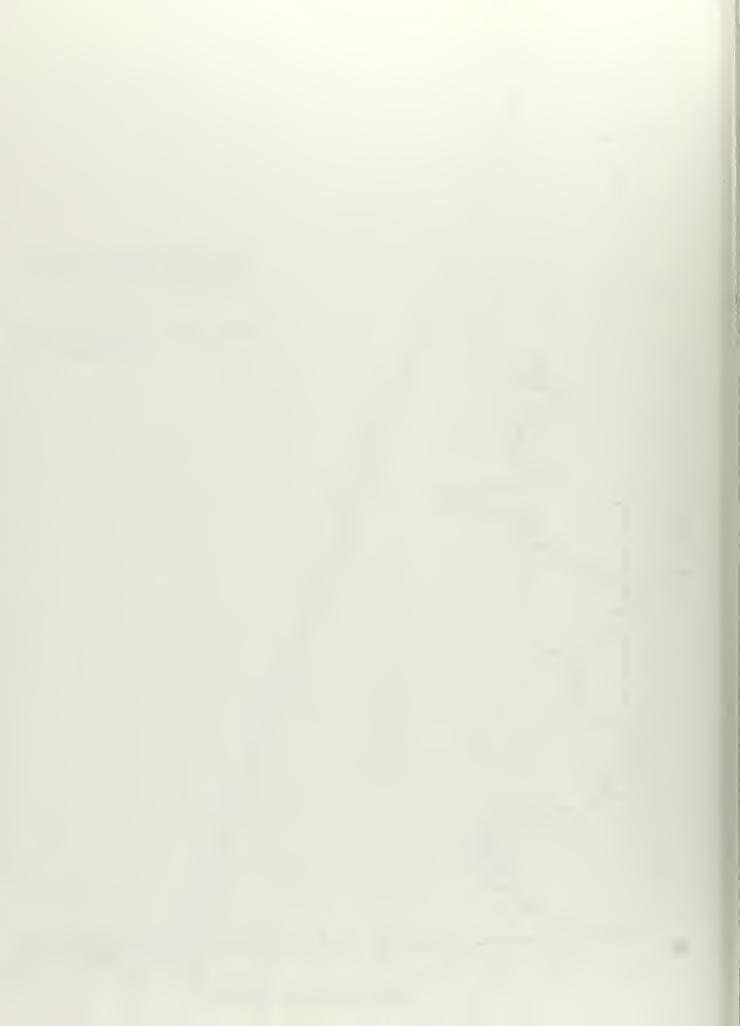


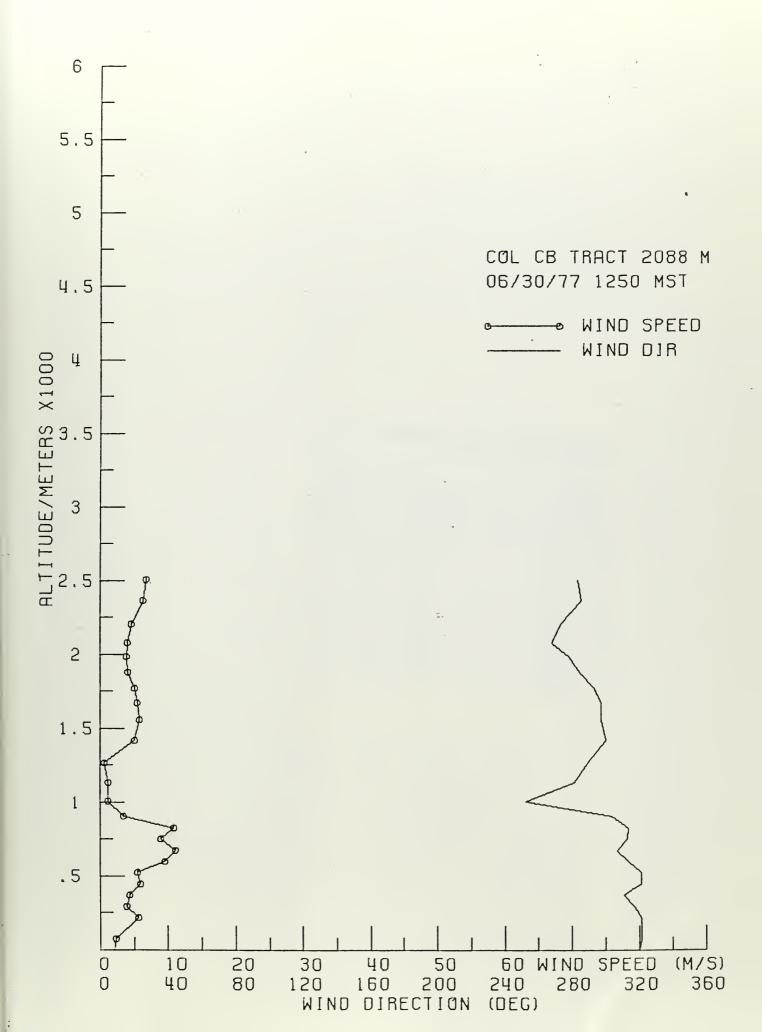














Form 1279_3
(June 1984)

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